Custom Residential Design for:
Baer Tree Services
S & S Construction, L.L.C.
Columbia County, Florida

Drawing Index

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ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION.	
BASIC WIND SPEED:	110 MPH
WIND IMPORTANCE FACTOR (I):	I = 1.00
BUILDING CATAGORY:	CATAGORY II
WIND EXPOSURE:	"B"
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18
MWFRS PER TABLE 1609.2.A (FBC 2004) DESIGN WIND PRESSURES:	ROOF: - 23.1 PSF WALLS: + 26.6 PSF EAVES: - 32.3 PSF
COMPONENTS & CLADING PER TABLES 1609.2.B & 1609.2.C (FBC 2004) DESIGN WIND PRESSURES:	OPNGS. + 21.8 / - 29.1 PSF EAVES: - 68.3 PSF ROOF: + 19.9 / - 25.5 PSF

REVISION:

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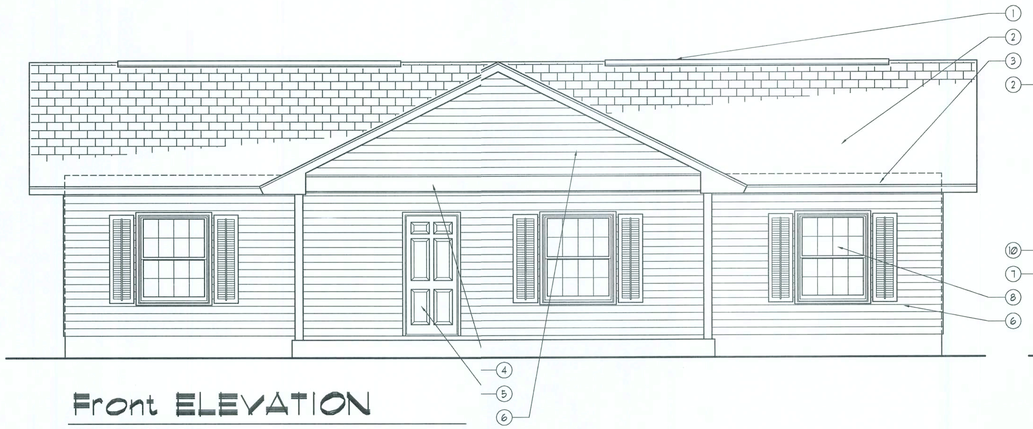
CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
COVER SHEET

NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd
Lake City, Fla. 32055
386-758-9021

DATE:
29 JAN 2008
COMM:
2K804

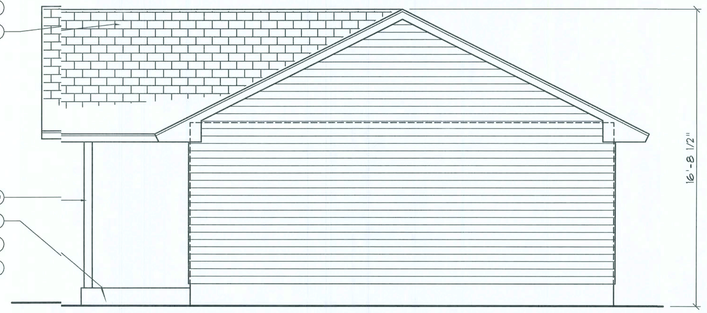
SHEET:
CS.1
1 OF 1

30 Jan 2008
AR0007005



Front ELEVATION

SCALE: 1/4" = 1'-Ø"

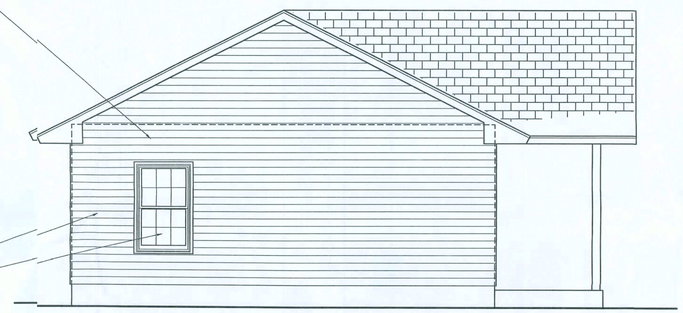


Left Side ELEVATION

SCALE: 1/4" = 1'-Ø"

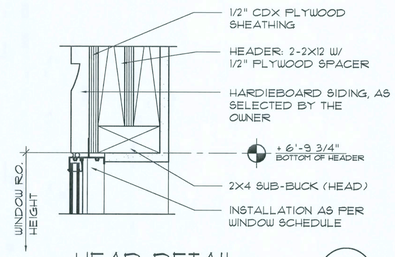
Rear ELEVATION

SCALE: 1/4" = 1'-Ø"

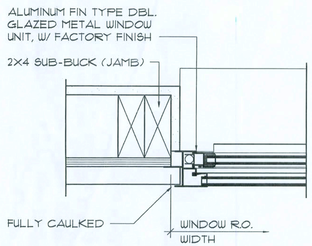


Right Side ELEVATION

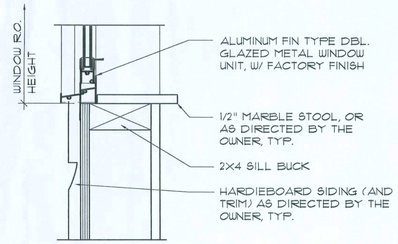
SCALE: 1/4" = 1'-Ø"



HEAD DETAIL
MTL. SASH — 1



JAMB DETAILS
MTL. SASH — 2



SILL DETAIL
MTL. SASH — 3

NOTE ! ! !
EXTERIOR DOORS SHALL MEET OR EXCEED THE WIND RESISTANCE OF THE FOLLOWING PRODUCT:

SERIES ENTERGY 6-8 W/E INSWING OPAQUE RESIDENTIAL INSULATED STEEL DOOR W/ STEEL FRAME AS MFG'D BY "PREMDOR ENTRY SYSTEMS"

NOTE ! ! !
ROOF SHINGLES SHALL BE AS MANUFACTURED BY "TAMKO ROOFING PRODUCTS" OF THE FOLLOWING MODELS:

GLASS-SEAL AR
ELITE GLASS-SEAL AR
HERITAGE 30 AR
HERITAGE 40 AR
HERITAGE 50 AR

THESE SHINGLES MEET THE REQUIREMENTS OF ASTM D-3161 TYPE I MODIFIED TO 110 MPH WINDS & FBC TAS 100, USING 4 NAILS/SHINGLE

NOTE ! ! !
WINDOW ASSEMBLIES SHALL MEET OR EXCEED THE WIND RESISTANCE OF THE FOLLOWING PRODUCTS:

"MI HOME PRODUCTS, INC." SERIES 450/650 ALUMINUM WINDOWS, SINGLE HUNG, 1, 2 & 3 MULLED UNITS, PICTURE WINDOWS & SLIDING GLASS DOORS
PER ASTM E 283, ASTM E 330 & ASTM E 547

EXTERIOR FINISH MATERIALS:

1. CONT. RIDGE VENT TO MATCH ROOFING
2. FINISH ROOFING AS SELECTED BY OWNER
3. MTL. FLASHING ON 1X6 CYPRESS FASCIA
4. PORCH BEAM - SEE PLANS FOR SIZE
5. STEEL ENTRY DOOR, STYLE AS SELECTED BY THE OWNER - PAINTED FINISH
6. VINYL SIDING AS SELECTED BY THE OWNER
7. CONCRETE PORCH DECK, W/ WOOD FLOAT FINISH & TOOLED EDGES
8. SINGLE HUNG ALUMINUM WINDOWS W/ DBL. GLAZING, AS SELECTED BY OWNER
9. N/A
10. P/T WOOD PORCH POSTS, PRIMED & PAINTED

WINDOW SCHEDULE

MARK	DESCRIPTION	INSTALLATION	MODEL	NOTES
3030	SINGLE HUNG, ALUM. SASH W/ INSUL. GLASS	1" ROOFING NAILS - 3 PER FLANGE, MAX. 18" O.C.	SERIES 650	-
3050	SINGLE HUNG, ALUM. SASH W/ INSUL. GLASS	1" ROOFING NAILS - 3 PER FLANGE, MAX. 18" O.C.	SERIES 650	-
4050	SINGLE HUNG, ALUM. SASH W/ INSUL. GLASS	1" ROOFING NAILS - 4 PER FLANGE, MAX. 18" O.C.	SERIES 650	-

ALL WINDOWS ARE INSULATED AND WEATHERSTRIPPED AS MANUFACTURED BY "MI HOME PRODUCTS, INC."
- OTHER MANUFACTURERS/PRODUCTS SHALL BE CONSIDERED AS EQUAL IF THEIR WIND DESIGN PERFORMANCE MEETS OR EXCEEDS THESE UNITS
NOTE, VERIFY ROUGH OPENING WINDOW REQUIREMENTS PRIOR TO CONSTRUCTION.

NOTE ! ! !
EXTERIOR DOORS SHALL MEET OR EXCEED THE WIND RESISTANCE OF THE FOLLOWING PRODUCT:

SERIES ENTERGY 6-8 W/E INSWING OPAQUE RESIDENTIAL INSULATED STEEL DOOR W/ STEEL FRAME AS MFG'D BY "PREMDOR ENTRY SYSTEMS"

NOTE ! ! !
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PER ASTM E 283, ASTM E 330 & ASTM E 547

Typ. Window DET'S

SCALE: 3" = 1'-Ø" — 4

REVISION:

DR/WN:
rpg

CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
ELEVATIONS

NICHOLAS GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-755-9021

DATE:
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COMM:
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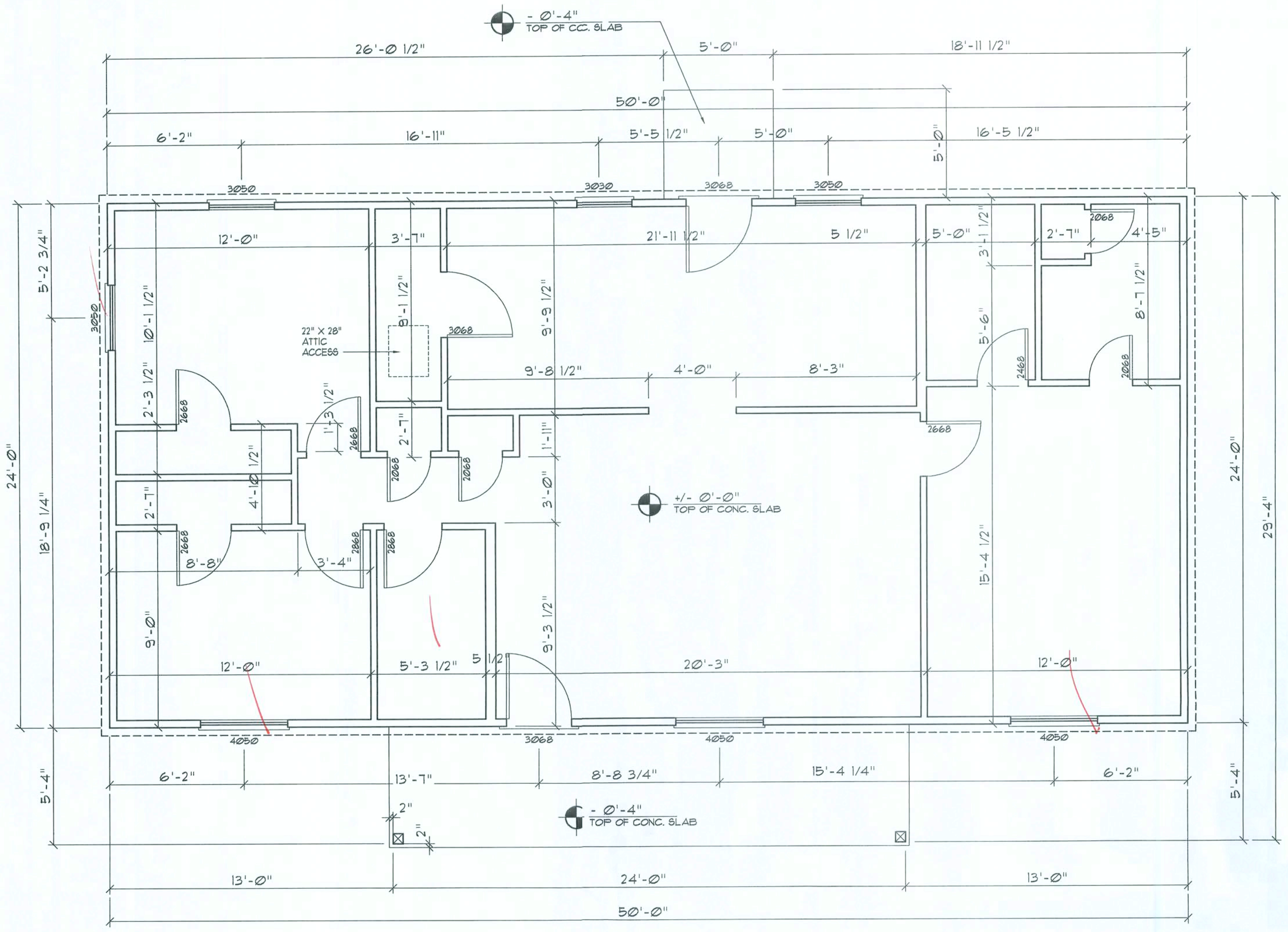
SHEET:
A.1
1 OF 8

AR#007005



Dimension PLAN

SCALE: 1/4" = 1'-Ø"

NOTE!
ALL INTERIOR PARTITION WALLS ARE 3 1/2" THICK, UNLESS NOTED OTHERWISE.

NOTE!
ALL EXTERIOR WALLS ARE 2X4 STUDS W/ 1/2" THICK CDX PLYWD. SHEATHING (4")

NOTE!
CABINETS, COUNTERS, SHELVES AND THE LIKE, SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS OF QUALITY AS OUTLINED IN THE NOTES TITLED "GENERAL MILLWORK NOTES", AND SHALL INCLUDE SUCH FEATURES, HARDWARE AND FINISHES AS DIRECTED BY THE OWNER. THE PLAN VIEWS INDICATED ARE FOR GENERAL LOCATION AND EXTENT OF THE WORK - UNLESS DETAILED CABINET PLANS ARE INCLUDED WITH THIS PLANS PACKAGE ALL OTHER PHYSICAL CHARACTERISTICS SHALL BE AS DIRECTED BY THE OWNER.

NOTE!
PROVIDE 2X6 BACKING AT ALL OVERHEAD CABINET LOCATIONS, FLUSH WITH FACE OF FRAMING - TOP OF BACKING TO BE 7'-Ø" AFF.

AREA CALCULATION

GROSS LIVING AREA:	1200.Ø SF
COVERED PORCH AREA:	144.Ø SF
TOTAL AREA:	1344.Ø SF

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

ALL RECEPTICALS IN BEDROOMS SHALL BE ON ARC FAULT INTERRUPTER CIRCUITS (AFIC), PER NEC 21Ø-12

ALL RECEPTICALS IN BATHROOMS, KITCHENS AND EXTERIOR LOCATIONS SHALL BE ON GROUND FAULT INTERRUPTER CIRCUITS (GFIC).

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

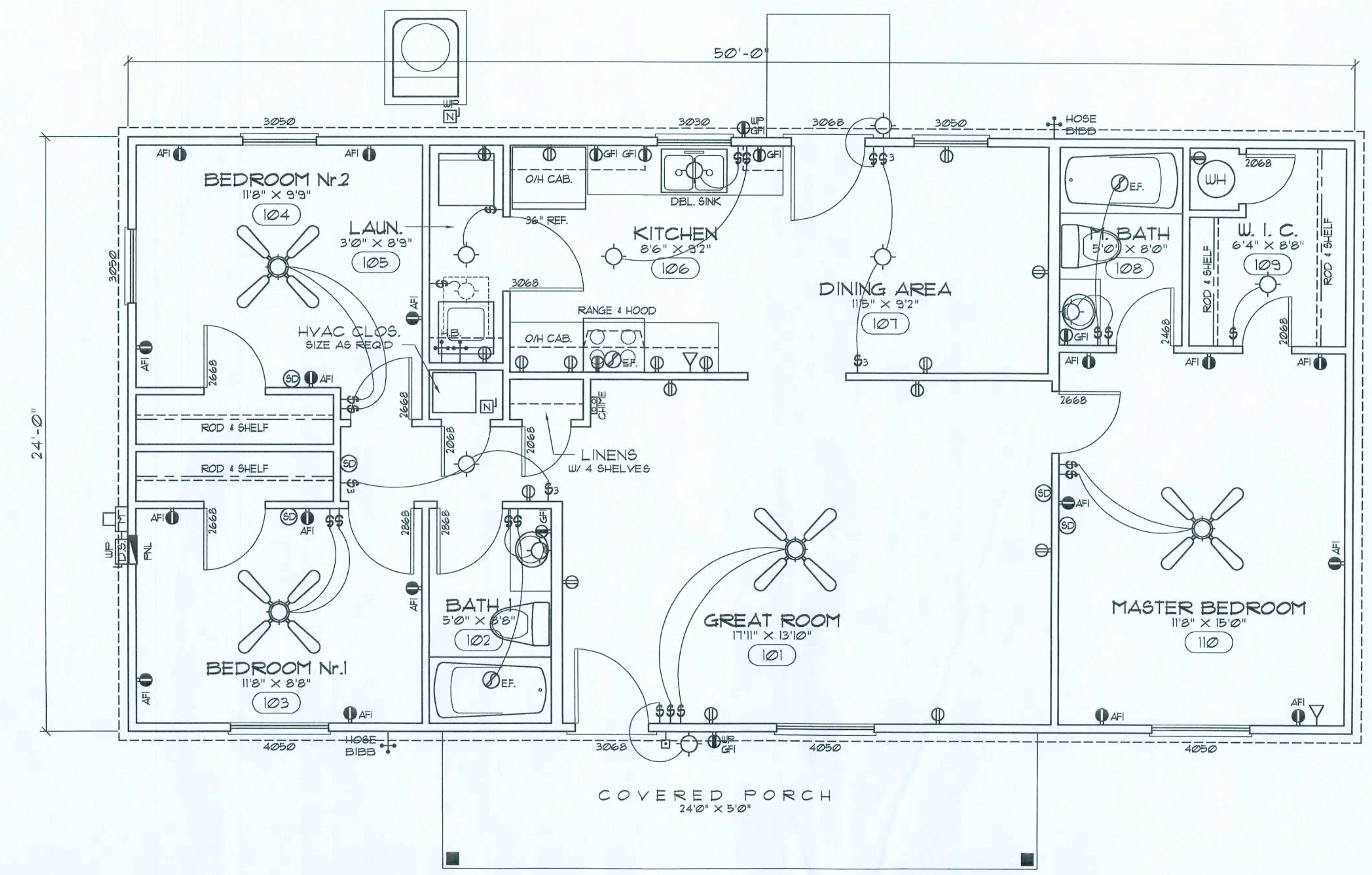
ALL SMOKE DETECTORS SHALL BE 12ØV W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

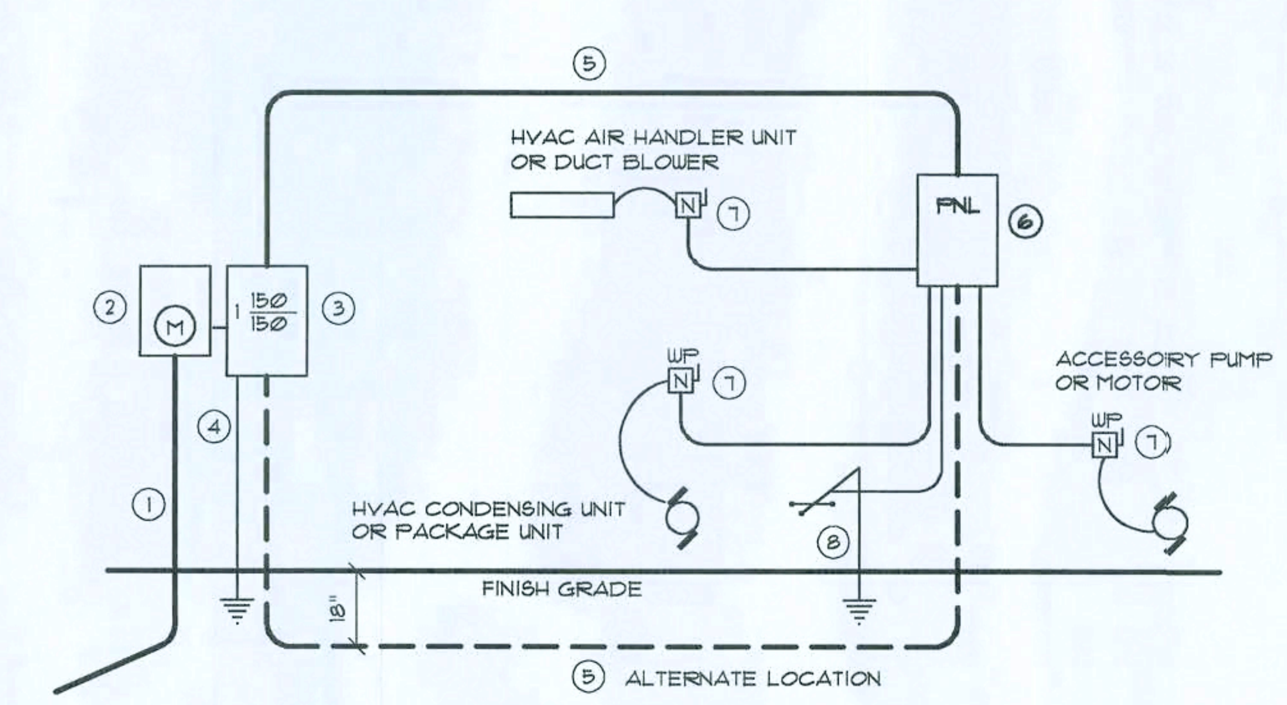
Electrical SYMBOLS

- SPST WALL SWITCH
- DPDT WALL SWITCH (3-WAY)
- DUPLEX WALL RECEPTACLE
- DUPLEX WALL RECEPT., BELOW COUNTER
- 24ØV OUTLET
- GND FAULT INTERRUPTER DUPLEX RECEPT.
- ARC FAULT INTERRUPTER DUPLEX RECEPT.
- WEATHER PROOF GFI DUPLEX RECEPT.
- DUPLEX WALL RECEPTACLE, ½ SWITCHED
- MOTOR
- ELECTRICAL PANEL
- EXHAUST FAN
- DBL. LAMP INC. FLOOD LIGHT
- CEILING FAN, W/ INC. LIGHT FIXTURE
- INC. LIGHT FIXTURE
- SMOKE DETECTOR, 12ØV
- 4 TUBE FLU. PRISMATIC WRAP SURFACE FIXTURE
- CHIME
- MOMENTARY PUSHBUTTON SWITCH, LIGHTED
- SWITCH/FIXTURE WIRING
- CONTROL WIRE - LOW VOLTAGE
- NON-FUSED DISC. SWITCH
- TELEPHONE
- TELEVISION OUTLET
- HVAC THERMOSTAT, @ 6Ø" AFF



Floor PLAN

SCALE: 1/4" = 1'-Ø"



1. Service/Feeder Entrance Conductors: 2½" rigid conduit, min. 18" deep, w/ continuous Ground Bonding Conductor, Service/ Entrance Conductors shall not be spliced except that bolted connections at the Meter, Disconnecting Devices and Panel shall be allowed.
2. Meter Enclosure, weatherproof, U.L. Listed.
3. Main Disconnect Switch: fused or Main BRKR, weatherproof, U.L. Listed.
4. Service entrance Ground: ⅝" ϕ iron/steel rod x 8'-Ø" long and/or concrete encased foundation steel rebar x 2Ø'-Ø" long. Grounding Conductor shall be bonded to each piece of Service/ Entrance Equipment, and shall be sized per Item #5, below.
5. 15Ø AMPERE SERVICE: 3-#1-USE-Cu, 1-#6-Cu-GND, 1½" Conduit.
6. House Panel (PNL), U.L. Lised, sized per schedule.
7. Equipment Disconnect Switch: non-fused, in weatherproof enclosure, size according to Panel Schedule loads.
8. Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

NOTE!
THE MINIMUM AIC RATING FOR PANEL BOARDS, BRKRS AND DISCONNECT SWITCHES SHALL BE 22,ØØØ AIC.

ELECTRICAL RISER DIAGRAM: 15ØA

SCALE: NONE

ELECTRICAL COMPUTATIONS

General Lighting/Receptacles @ 3w/sf		
12ØØ.Ø sf x 3w =	36ØØ.Øw	
Washer Circuit	15ØØ.Øw	
Dishwasher Circuit	15ØØ.Øw	
Sm. Appliance Circuits (3 @ 15ØØw)	45ØØ.Øw	
Sub-Total	111ØØ.Øw	
1st 3KW @ 1ØØ%		3ØØØ.Øw
Bal. of KW @ 35%		2834.Øw
Fixed Appliances:		
Refrigerator	12ØØ.Øw	
Clg. Fans (4 @ 25Øw)	1ØØØ.Øw	
Water Well Pump	12ØØ.Øw	
EWH	45ØØ.Øw	
Spares (8 @ 4ØØw)	32ØØ.Øw	
Sub-Total	111ØØ.Øw	
Load @ 75% D.F.		8325.Øw
1ØØ% Demand Factor Loads:		
Dryer		5ØØØ.Øw
Range		8ØØØ.Øw
HVAC System (8.Økw Strip Heat)		8ØØØ.Øw
Total Demand Load:		35159.2w

SERVICE SIZE: 35159.2w / 24Øv = 146.5 Amperes
USE: 3 #1 THW w/ 1 #6 Cu GND / 2½" C.

PANEL SCHEDULE

PANEL "L": 15ØA - MLO - 12Ø/24ØV - 1ϕ - 4 WIRE
4Ø SLOT - FLUSH MOUNT

Cir. Nr.	Location	Trip Poles	Wire Size	Load
1-8	Lighting/Recept.	15A/1P	14NM	36ØØW
9	Dishwasher	"	"	15ØØW
1Ø-12	Sm. Kit. Appliances	2ØA/1P	12NM	45ØØW
13-14	Ceiling Fans	15A/1P	14NM	12ØØW
15,17	EWH	3ØA/2P	1ØNM	3ØØØW
16	Refrigerator	15A/1P	14NM	12ØØW
18	Spare	-	-	4ØØW
19,21	Range	5ØA/2P	6NM	8ØØØW
2Ø,22	Water Well	2ØA/2P	12NM	12ØØW
23,25	Dryer	3ØA/2P	1ØNM	5ØØØW
24,26	HVAC CU	4ØA/2P	8NM	(36ØØW)
27,29	HVAC AHU	45A/2P	8NM	8ØØØW
3Ø-36	Spare	-	-	28ØØW
37-4Ø	Space	-	-	ØW

TOTAL CONNECTED LOAD: 4Ø4ØØW

RIVISION:

DIAWN: NPG

CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
FLOOR PLAN - ELECTRICAL - DIMENSIONS

NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-755-9021

DATE: 29 JAN 2ØØ8

COMM: 2K8Ø4

SIEET: A.2
2 OF 8

30 Jan 2K8
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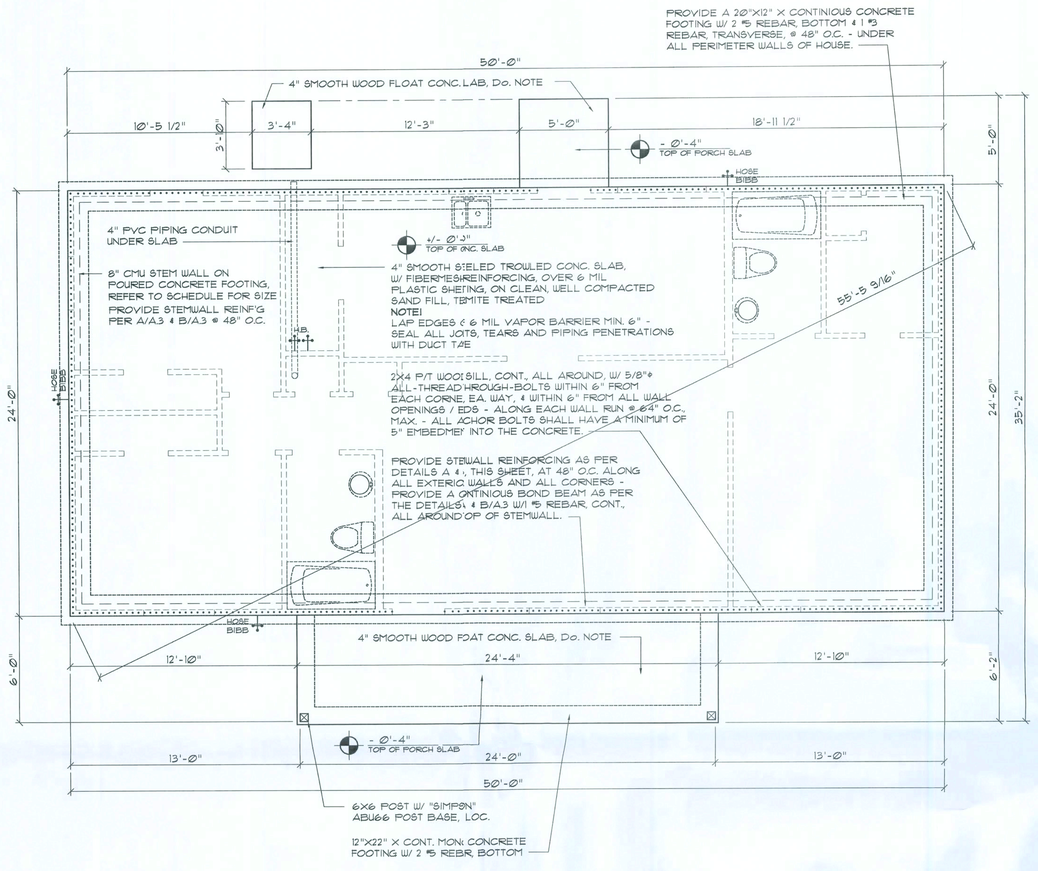


Foundation PLAN

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

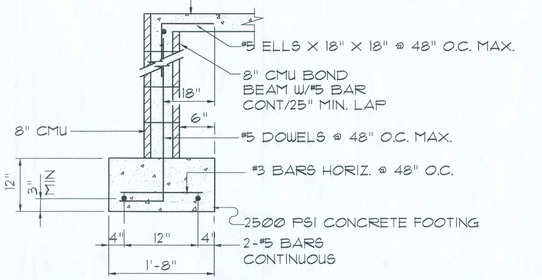
..... SHEAR WALL SEGMENTS, SEE A6
(ALL EXT. WALLS, LESS DOOR OPENINGS)

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 110 MPH PER 2004 FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

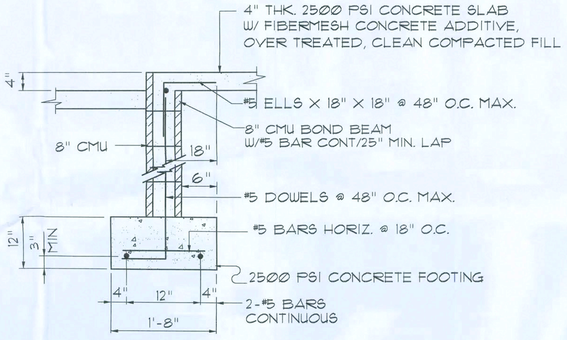
NOTE!
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - EA. LIFT SHALL BE CONPACTED TO 95% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE!
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING REPORT - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



SECTION A / A3
SCALE: 3/4" = 1'-0



SECTION B / A3
SCALE: 3/4" = 1'-0

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION
Roof: Gable Construction, Wood Trusses @ 24" O
Walls: 2x4 Wood Studs @ 16" O.C.
Floor: 4" THK. Concrete Slab W/ Fibermesh Concrete Additive
Foundation: Continuous Footer/Stem Wall

ROOF DECKING
Material: 1/2" CD Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: 8d Common Nails per schedule on sheet A6

SHEARWALLS
Material: 1/2" CD Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Placed Vertical
Fasteners: 8d Common Nails @ 4" O.C. Edges & 8" O.C. Interior
Dragstrut: Double Top Plate (8,Y,P,) W/16d Nails @ 12" O.C.
Wall Studs: 2x4 Hem Fir Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS
Truss Anchors: SEMCO HDPT2 @ Ea. Truss End (Typ, U.O.N.)
Wall Tension: Wall Sheath'g Nailing is Adequate - 8d @ 4" O.C. Top & Bot.
Anchor Bolts: 1/2" A307 Bolts @ 48" O.C.
Corner Hold-down Device: (1) HD5a @ each corner W/ 5/8"ø A.B.
Porch Column Base Connector: Simpson ABU66 @ each column
Porch Column to Beam Connector: Simpson EPC66 @ each column

FOOTINGS AND FOUNDATIONS
Footing: 20"x10" Cont. W/2-#5 Bars Cont. & 1-#5 Transverse @ 24" O.C.
Stemwall: 8" CMU, W/1-#5 Vertical Dowel @ 48" O.C.

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION.	
BASIC WIND SPEED:	110 MPH
WIND IMPORTANCE FACTOR (I):	I = 1.00
BUILDING CATAGORY:	CATAGORY II
WIND EXPOSURE:	"B"
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18
MWFRS PER TABLE 1609.2A (FBC 2004) DESIGN WIND PRESSURES:	ROOF: - 23.1 PSF WALLS: + 26.6 PSF EAVES: - 32.3 PSF
COMPONENTS & CLADING PER TABLES 1609.2B & 1609.2C (FBC 2004) DESIGN WIND PRESSURES:	OPNGS: + 21.8 / - 29.1 PSF EAVES: - 68.3 PSF ROOF: + 19.9 / - 25.5 PSF

CONCRETE / MASONRY / METALS GENERAL NOTES:

1. DESIGN SOIL BEARING PRESSURE: 1000 PSF.
2. EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION PER THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PREFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.
3. CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING GD. SHALL BE PLACED IN 12" LIFTS. BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 98% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 1500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
4. REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.
5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YEILD STRESS = 85 KSI.
6. CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F'm = 1500 PSI.
8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH, BOLTS SHALL BE ASTM A307 / GRADE 1 OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.

REVISION:

DRAWN: MPB

CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
FOUNDATION PLAN

NICHOLAS GEISLER ARCHITECT
N.C.A.R.B. Certified
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386-752-9021

DATE: 29 JAN 2008
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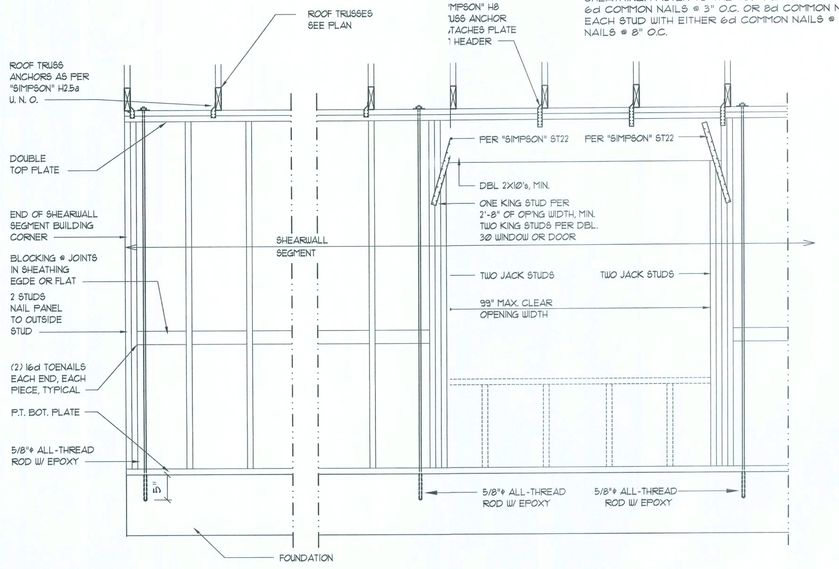
SHEET: A.3
3 OF 8

/R0007005

EXTERIOR WALL SHEATHING:
APPLY VERTICALLY, "WindSTORM" 7/16" OSB 48" X 97", 109", 121" OR 145" SHEATHING. FASTEN TO THE TOP PLATE AND THE SILL PLATE WITH EITHER 6d COMMON NAILS @ 3" O.C. OR 8d COMMON NAILS @ 4" O.C. FASTEN TO EACH STUD WITH EITHER 6d COMMON NAILS @ 6" O.C. OR 8d COMMON NAILS @ 8" O.C.



All-Thread Shear Wall DETAILS

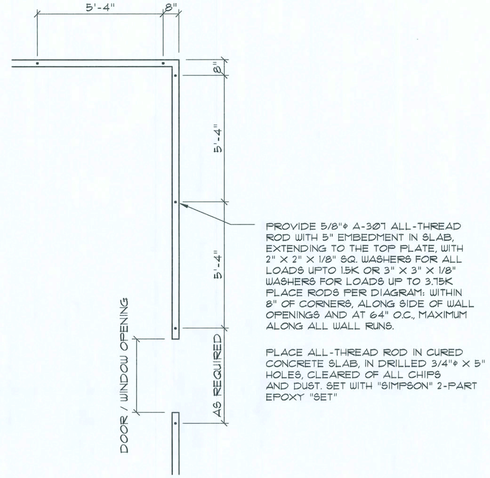
SCALE: NONE

C

SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-97 SBCCI 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO 2 FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 4" O.C. EDGES AND 8" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 FOR 8'-0" WALLS (2'-3").

OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
fr 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
fr 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3



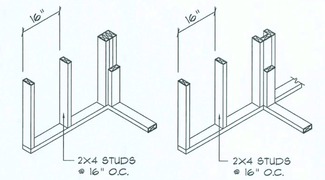
PROVIDE 5/8"ø A-307 ALL-THREAD ROD WITH 5" EMBEDMENT IN SLAB, EXTENDING TO THE TOP PLATE, WITH 2" X 2" X 1/8" SQ. WASHERS FOR ALL LOADS UPTO 1.5K OR 3" X 3" X 1/8" WASHERS FOR LOADS UP TO 3.75K PLACE RODS PER DIAGRAM. WITHIN 8" OF CORNERS, ALONG SIDE OF WALL OPENINGS AND AT 64" O.C. MAXIMUM ALONG ALL WALL RUNS.

PLACE ALL-THREAD ROD IN CURED CONCRETE SLAB, IN DRILLED 3/4"ø X 5" HOLES, CLEARED OF ALL CHIPS AND DUST. SET WITH "SIMPSON" 2-PART EPOXY "SET"

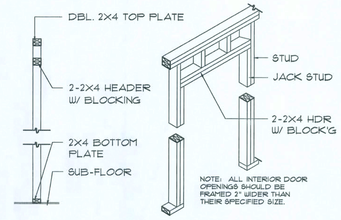
All-Thread Wall Tie-Down PLAN

SCALE: NONE

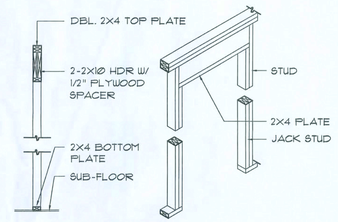
D



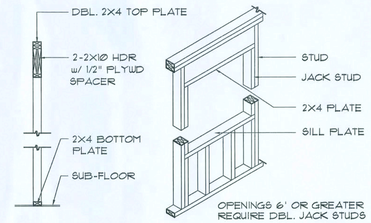
WALL CORNER WALL INTERSECTION



NON-BEARING WALL HEADER



BEARING WALL HEADER



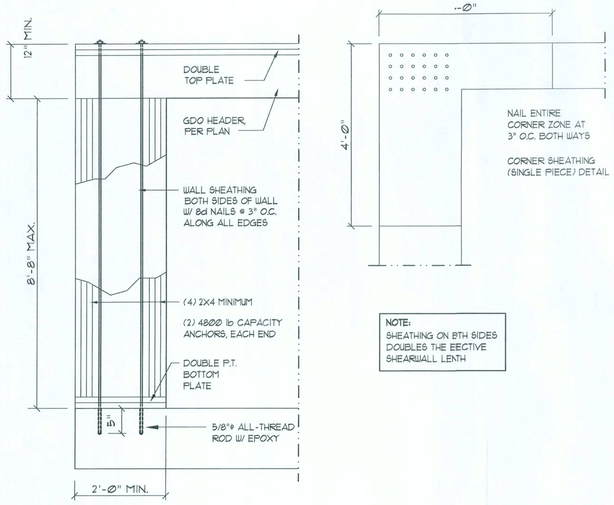
TYPICAL WINDOW HEADER

Framing DETAILS

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

G

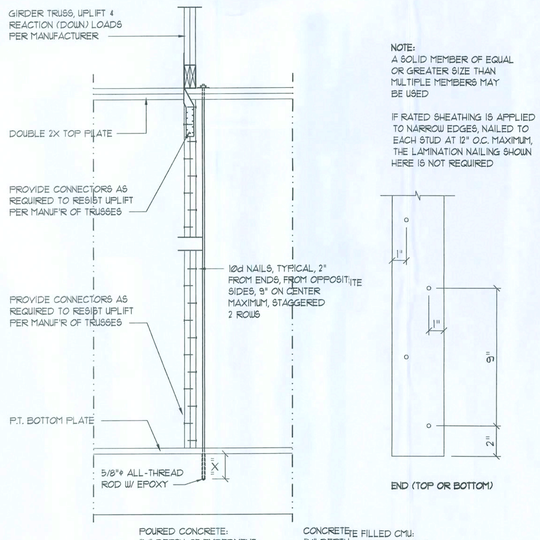
EXTERIOR WALL SHEATHING:
APPLY VERTICALLY, "WindSTORM" 7/16" OSB 48" X 97", 109", 121" OR 5" SHEATHING. FASTEN TO THE TOP PLATE AND THE SILL PLATE WITH EITHER 6d COMMON NAILS @ 3" O.C. OR 8d COMMON NAILS @ 4" O.C. FASTEN TO EACH STUD WITH EITHER 6d COMMON NAILS @ 6" O.C. OR 8d COMMON NAILS @ 8" O.C.



Garage End Wall DETAILS

SCALE: 1/2" = 1'-0"

E



NOTE:
A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED

IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM, THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED

END (TOP OR BOTTOM)

Girder Truss Column DET.

SCALE: 1/2" = 1'-0"

F

CONSTRUCTION NOTES

1. FIELD VERIFY ALL DIMENSIONS AND MATERIALS. ALL OUTSIDE DIMENSIONS ARE TO FACE OF STEMWALL
2. ALL NAILING CONSTRUCTION MATERIALS SHALL BE AS PER 2004 FBC - SEE 8D.1
3. PROVIDE EXTERIOR COMBUSTION AIR TO GAS FIRED H.V.A.C. EQUIPMENT, WOOD BURNING STOVES, AND FIREPLACES.
4. VENT CLOTHES DRYER, BATH, AND COOKING FANS TO EXTERIOR AS REQUIRED.
5. CONTRACTOR SHALL CALL ATTENTION TO THE DESIGNER, ANY DISCREPANCIES IN DRAWINGS AND/OR SPECIFICATIONS AND SHALL RECEIVE INSTRUCTIONS OR CLEARIFACATIONS BEFORE PROCEEDING WITH THE PORTION OF THE WORK IN QUESTION.
6. ROOF & FLOOR TRUSS FRAMING PLANS ARE FOR GENERAL INFORMATION ONLY. THE TRUSS MANUFACTURER SHALL PROVIDE A DETAILED LAYOUT FOR TRUSS AND FRAMING MEMBERS.
7. SHOULD CONDITIONS AT THE SITE BE FOUND MATERIALLY DIFFERENT FROM THOSE INDICATED BY THE DRAWINGS AND/OR SPECIFICATIONS, AND THE CONDITIONS USUALLY INHERENT IN THE WORK OF THE CHARACTER SHOWN AND SPECIFIED BE DIFFERENT FROM THE DESIGNERS RECOMMENDED BUILDING PROCEDURES; CALL IMMEDIATE ATTENTION TO SUCH CONDITIONS BEFORE PROCEEDING.
8. LP GAS-BURNING APPLIANCES ARE NOT PERMITTED IN BASEMENTS OR CRAWLSPACES.
9. DO NOT SCALE DRAWINGS. USE PRINTED DIMENSIONS ONLY.

REVISION:

DR.WN:
rp8

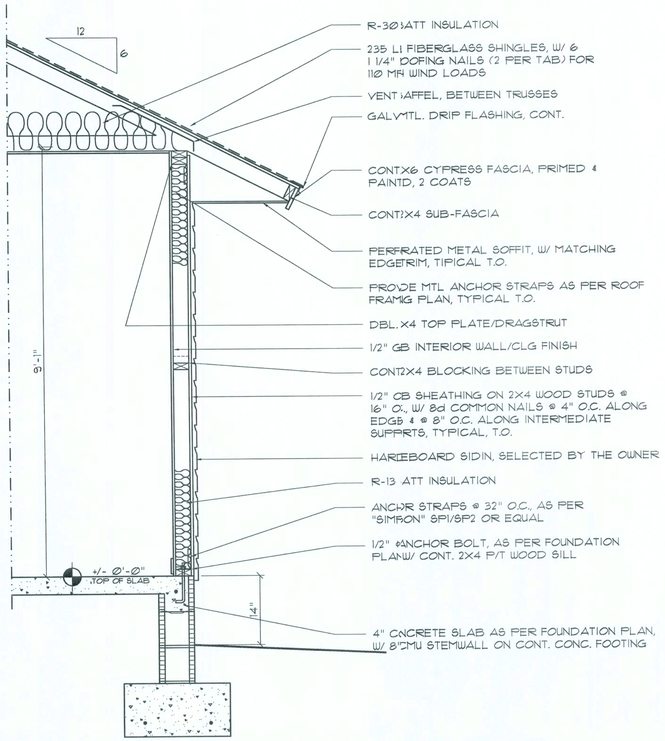
CUSTOM RESIDENTIAL DESIGN for.
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
STRUCTURAL DETAILS

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-755-9021

DATE:
23 JAN 2008
COMM:
2K804

SHEET:
A.4
4 OF 8

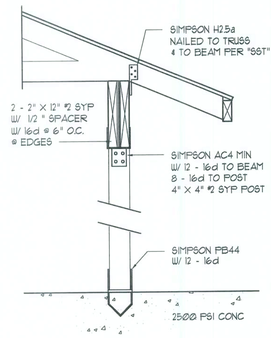
AF0007005



Typical Wall SECTION

SCALE: 3/4" = 1'-0"

H

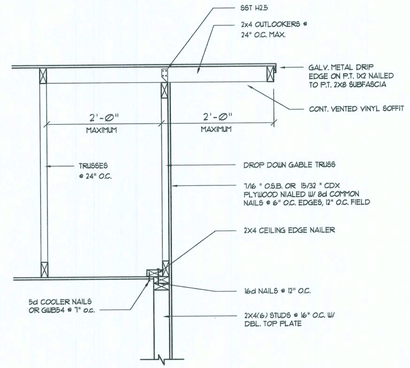


SEE PLANS FOR ANCHOR VARIATIONS

Post/Beam DETAIL

SCALE: 1" - 1'-0"

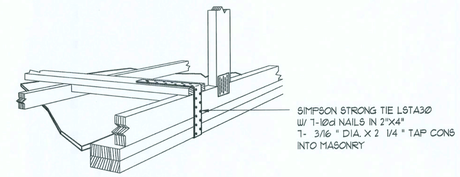
I



Gable End DETAILS

SCALE: NONE

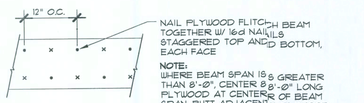
J



GABLE END GYPSUM DIAPHRAGM HOLDOWN CONNECTOR

SCALE: NONE

K

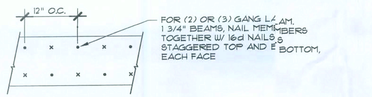


NOTE: WHERE BEAM SPAN IS GREATER THAN 8'-0", CENTER 8'-0" LONG PLYWOOD AT CENTER OF BEAM SPAN, BUTT ADJACENT PLYWOOD PIECES TIGHT TO CENTER PIECE. STAGGER JOINTS AT BEAMS WITH MORE THAN ONE PLYWOOD PLATE.

PLYWOOD FLITCH BEAM DETAIL

NOT TO SCALE

1



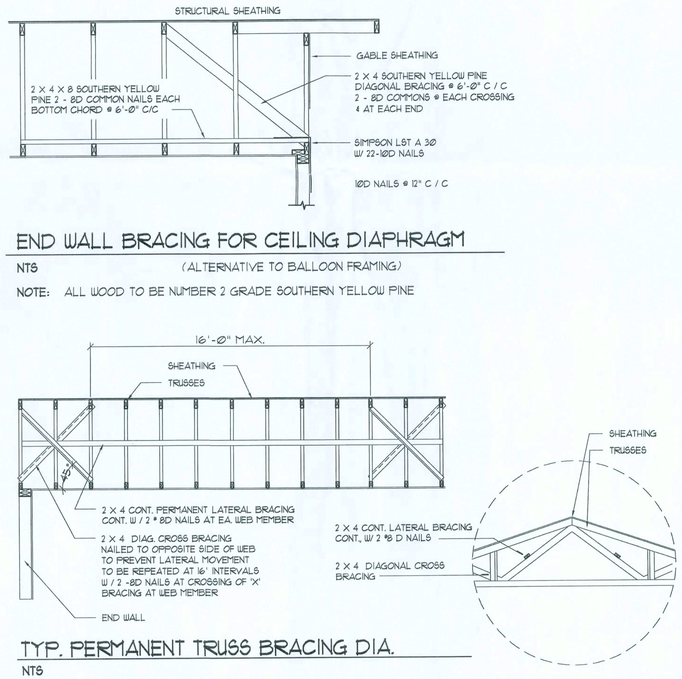
MULTIPLE GANG LAM. DETAIL

NOT TO SCALE

B/U Beam DETAILS

SCALE: NONE

M



END WALL BRACING FOR CEILING DIAPHRAGM

NTS (ALTERNATIVE TO BALLOON FRAMING)

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

TYP. PERMANENT TRUSS BRACING DIA.

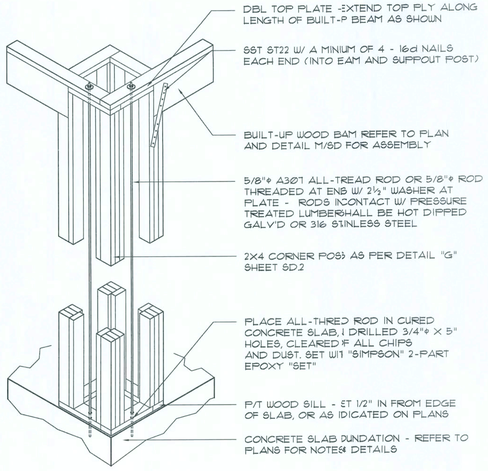
NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

Truss Bracing DETAILS

SCALE: AS NOTED

O

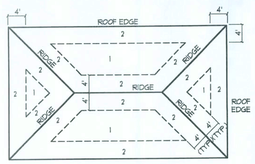


Built-Up Column Thru-Bolt DETAIL

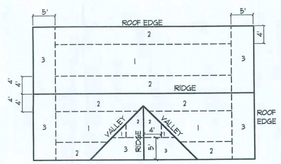
SCALE: 1/2" = 1'-0"

L

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	7/16 " OSB. OR 15/32 CDX	8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



ROOF SHEATHING NAILING ZONES (HIP ROOF)



ROOF SHEATHING NAILING ZONES (GABLE ROOF)

Roof Nail Pattern DET.

SCALE: NONE

N

REVISION:

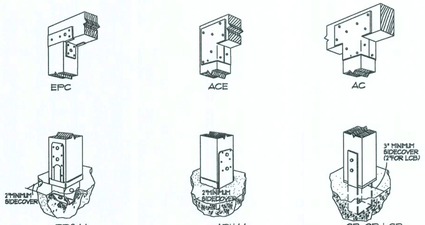
DRAWN: NPG

CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
STRUCTURAL DETAILS

NICHOLAS PETER GEISLER ARCHITECT N.C.A.R.B. Certified
1706 NW Brownz Rd Lake City, FL 32055 386-755-9021

DATE: 29 JAN 2008
JOMM: 2K804
SHEET: A.5
5 OF 8

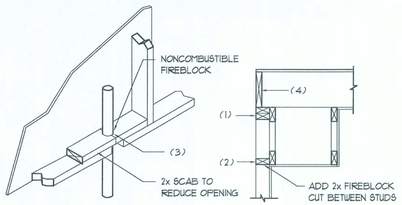
AR0007005



Typical "Simpson" CONNECTORS

SCALE: NONE

(A)



PENETRATIONS

SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL 'MULTIFLEX SEALANT"
4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS

SCALE: NONE

(B)

GENERAL NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING THE THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
7. ALL WORK SHALL BE IN ACCORDANCE W/ APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABLES LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
10. INTERIOR BEARING WALLS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333", BATT INSULATION SHALL BE INCLUDED WHERE UNCONDITIONED AREA IS BEING SEPARATED FROM HEATED / COOLED AREA.
11. INTERIOR STUD WALLS SEPARATING LIVING AREA FROM GARAGE AREAS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333", INCLUDING R-11 BATT INSULATION.
12. CEILINGS OVER ATTACHED GARAGES OR GARAGES W/ LIVING AREA ABOVE SHALL BE 5/8" FIRECODE "C" GWB ON 1X3 WOOD FURRING AT 16" O.C., ATTACHED W/ 1 1/4" BUGLEHEAD SCREWS @ 6" O.C. ALONG EACH POINT OF BEARING.

STANDARD ABBREVIATIONS

	AT	GALV.	GALVANIZED
#	NUMBER or POUND(S)	HORZ.	HORIZONTAL
=	EQUALS	INS.	INSULATION
Ø	DIAMETER	INT.	INTERIOR
W/	WITH	LAV.	LAVATORY
O	WITHOUT	LVL.	LAMINATED VENEER LUMBER
℄	CENTERLINE	MAX.	MAXIMUM
&	AND	MIN.	MINIMUM
- or ±	PLUS OR MINUS	MISC.	MISCELLANEOUS
'	ONE FOOT	M.O.	MASONRY OPENING
"	ONE INCH	No. or Nr.	NUMBER
1" or ¼"	ONE QUARTER INCH	O.C.	ON CENTER
d	8 PENNY	O/H	OVERHEAD
¶	BEAM	OHD	OVERHEAD DOOR
O.	BY OTHERS	PLYWD.	PLYWOOD
BT.	BOTTOM	P/T	PRESSURE TREATED
CL.	CEILING	REINF.	REINFORCING (ED)
CO	CLEANOUT	REQ'D	REQUIRED
CONC.	CONCRETE	RM.	ROOM
CTG	CLEANOUT TO GRADE	R.O.	ROUGH OPENING
DBL.	DOUBLE	SF	SQUARE FEET
DIM.	DIMENSION	SGD	SLIDING GLASS DOOR
DN.	DOWN	SHT.	SHEET
ELEV.	ELEVATION	SRLH	SUWANNEE RIVER LOG HOMES
EXT.	EXTERIOR	TYP.	TYPICAL
FR	FRENCH (DOORS)	VERT.	VERTICAL
FN.	FOUNDATION	WC	WATERCLOSET (TOILET)

PROJECT INFORMATION / NOTES:

DESIGN VALUES/LOADS & CODES

WIND DESIGN SPEED: 120 MPH, UNLESS NOTED OTHERWISE

SOIL DESIGN STATEMENT:
FOOTING DESIGN IS BASED UPON 2000PSF SOIL BEARING PRESSURE PROVIDED BY CLEAN SAND, GRAVEL OR STONE. OTHER SOIL CONDITIONS ie: CLAY, HIGH LEVEL OF ORGANICS OR OTHER UNDESIRABLE SOILS SHALL REQUIRE FOUNDATION MODIFACATIONS.

LIVE LOADS: 1st FLOOR: 40PSF, 2nd FLOOR: : 40PSF, ROOF: AS DETERMINED BY SHAPE FACTORS APPLIED TO THE WIND FORCE GENERATED BY THE DESIGN WIND SPEED.

BUILDING CODE: 2007 FLORIDA BUILDING CODE

ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - LATEST
LIFE SAFETY: NFPA-101 - LATEST

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

INORGANIC ARSENICAL PRESSURE TREATED WOOD

SOME FRAMING MATERIALS SPECIFIED FOR THE CONSTRUCTION OF YOUR PROJECT SUCH AS SILLS OR EXTERIOR FRAMING ARE PRESSURE TREATED. EACH PIECE IS CLEARLY MARKED FOR EASY IDENTIFICATION AND IS USUALLY GREENISH IN COLOR.

THIS WOOD HAS BEEN PRESERVED BY PRESSURE-TREATMENT WITH AN EPA-REGISTERED PESTICIDE CONTAINING INORGANIC ARSENIC TO PROTECT IT FROM INSECT ATTACK AND DECAY. EXPOSURE TO TREATED WOOD MAY PRESENT CERTAIN HAZARDS, THEREFORE, PRECAUTIONS SHOULD BE TAKEN BOTH WHEN HANDLING THE TREATED WOOD AND IN DETERMINING WHERE TO USE OR DISPOSE OF THE TREATED WOOD.

FOR FURTHER INFORMATION ON THE USE OF AND DISPOSAL OF INORGANIC ARSENIC PRESSURE TREATED WOOD, PLEASE REFER TO THE EPA MATERIAL SAFETY SHEET DEALING WITH THIS PRODUCT.

HARDWARE RETIGHTENING REQUIREMENTS

ALL LAG SCREW AND BOLT CONNECTIONS ON COMPOUND BEAMS, POSTS, GIRDERS, TIMBER TRUSSES AND OTHER STRUCTURAL MEMBERS TO BE INSPECTED PERIODICALLY AND RETIGHTENED AS NECESSARY.

SYMBOLS

THESE SYMBOLS ARE MOST OFTEN ENCOUNTERED IN THE FOLLOWING DRAWINGS: ELEVATIONS, DIMENSION PLANS, SECTIONS & STRUCTURAL PLANS

+/- Ø'-Ø" TOP OF SUB-FLOOR — TYPE & OF ELEVATION MARK USED TO INDICATE A PREFERRED TARGET ELEVATION - TRUE MEASUREMENT.

TOP OF 19th LOG COURSE NOMINAL + 8'-8 1/2" — TYPE & OF ELEVATION MARK USED TO INDICATE THE TOP OF A LOG WALL & STACK - NOMINAL ONLY.

A / A5 — TYPE & OF DETAIL MARK USED TO INDICATE A SECTION OR DETAIL ASSOCIATED WITH A PLAN VIEW

A / A5 — TYPE & OF DETAIL MARK USED TO INDICATE A SECTION ie: SECTION "A" ON SHEET A5, TAIL INDICATES DIRECTION OF VIEW

A / A5 — TYPE & OF SECTION MARK USED TO INDICATE A VIEW TAKEN IN THE DIRECTION OF THE ARROW ie: SECTION "A" FOUND ON "D.6.a" OF THE PROJECT MANUAL

(A) — INDICATES FOOTING TYPE "A", DESCRIBED IN THE FOOTING SCHEDULE

(1) — INDICATES POST/COLUMN TYPE "1", DESCRIBED IN THE COLUMN SCHEDULE

(1) — INDICATES POST/COLUMN TYPE "1", LOCATED BELOW CURRENT LEVEL

(2) — INDICATES POST/COLUMN TYPE "2", LOCATED ABOVE CURRENT LEVEL.

(2)/(1) — INDICATES POST/COLUMN TYPE "2" LOCATED OVER TYPE "1" POST/COLUMN

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION
Roof: Hip Construction, Wood Trusses @ 24" O.C.
Walls: 2x4 Wood Studs @ 16" O.C.
Floor: 4" Thk. Concrete Slab W/ Fibermesh Concrete Additive
Foundation: Continuous Footer/Stem Wall

ROOF DECKING
Material: 1/2" CD Plywood or 7/16" OSB.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: 8d Common Nails per schedule on sheet SD2

SHEARWALLS
Material: 7/16" OSB. "WindSTORM": 48" X 97", 109", 121" OR 145"
Sheet Size: 48"x97" (109", 121" OR 145") Sheets Placed Vertical
Fasteners: 8d Common Nails @ 4" O.C. Edges & 8" O.C. Interior
Dragstrut: Double Top Plate (6)-Y.P.) W/16d Nails @ 12" O.C.
Wall Studs: 2x4 SPF Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS
Truss Anchors: Simpson H2.5a @ Ea. Truss End (Typ. U.O.N.)
Wall Tension: Wall Sheathing Nailing is Adequate - 8d @ 4" O.C. Top & Bot.
Anchor Bolts: 1/2" A307 THRU-BOLTS @ 64" O.C. - 1st Bolt 8" from corner
Corner Hold-doun Device: (1) Anchor THRU-BOLT
Porch Column Base Connector: Simpson ABU44/ABU66 @ each column
Porch Column to Beam Connector: Simpson EPC44/PC44 @ each column

FOOTINGS AND FOUNDATIONS
Footing: 20"x12" Cont. W/2-#5 Bars Cont. & 1-#3 Transverse @ 24" O.C.
Stemwall: 8" CMU, W/1-#5 Vertical Dowel @ 48" O.C.

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION.

BASIC WIND SPEED:	110 MPH
WIND IMPORTANCE FACTOR (I):	1 x 1.00
BUILDING CATAGORY:	CATAGORY II
WIND EXPOSURE:	"B"
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18
MWFRS PER TABLE 1609.2.A (FBC 2004) DESIGN WIND PRESSURES:	ROOF: - 23.1 PSF WALLS: + 26.6 PSF EAVES: - 32.3 PSF
COMPONENTS & CLADING PER TABLES 1609.2.B & 1609.2.C (FBC 2004) DESIGN WIND PRESSURES:	OPNGS: + 21.8 / - 29.1 PSF EAVES: - 68.3 PSF ROOF: + 19.9 / - 25.5 PSF

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 1042.6
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6".
   EXCEPTION: PAINT AND DECORATIVE CEMENTICIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3
8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4
9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6
12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT. FBC 1816.1.7
13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.1
14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUFR/MODEL	CAP.
TRUSS TO WALL:	SIMPSON H2.5a	535#
GIRDER TRUSS TO POST/HEADER:	SIMPSON LGT, W/ 28 - 16d NAILS	1785#
HEADER TO KING STUD(S):	SIMPSON ST22	1370#
PLATE TO FOUNDATION:	5/8"ø THRU-BOLT	3340#
PORCH BEAM TO POST:	SIMPSON PC44/EPC44	1700#
PORCH POST TO FND.:	SIMPSON ABU44	2200#
MISC. JOINTS	SIMPSON A34	315#/240#

NOTE:
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

NOTE:
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:
"SEMCO" PRODUCT APPROVAL:
MIAMI/DADE COUNTY REPORT #95-0818.15

NOTE:
"SIMPSON" PRODUCT APPROVALS:
MIAMI/DADE COUNTY REPORT #91-0107.05, #96-1126.11, #99-0623.04
SBCCI NER-443, NER-393

GENERAL NAILING SCHEDULE:

NUMBER OF NAILS FOR CONNECTING WOOD MEMBERS:

CONNECTION	COMMON NAILS	Nr. / SPACING
BRIDGING TO JOIST, TOE NAIL	16d	2 EA. END
2" SUBFLOOR TO JOIST, BLIND & FACE NAILING	16d	2
SOLE PLATE TO JOIST OR BLOCKING FACE NAILED	16d	16" O.C.
TOP OR SOLE PLATE TO STUD END NAILED	16d	2
STUD TO SOLE PLATE, TOE NAILED	8d	3 OR 2 16d
DOUBLE STUDS, FACE NAILED	16d	24" O.C.
DOUBLE TOP PLATES, FACE NAILED	16d	16" O.C.
TOP PLATES - LAPS & INTERSECTIONS FACE NAILED	16d	2
1 X 6 SHEATHING TO EACH POINT OF BEARING, FACE NAILED	8d	2
BUILT-UP CORNER STUDS, FACE NAILED	16d	30" O.C.
BUILT-UP GIRDERS & BEAMS	20d	32" O.C. @ TOP & BOTTOM & STAGGERED - 2 @ EA. END & @ SPLICES
3/4" PLYWOOD SUBFLOORING	8d	6" O.C. @ EDGES 10" O.C. @ INTERMEDIATE
OSB SHEATHING, 7/16" THICK	8d	6" O.C. @ EDGES 10" O.C. @ INTERMEDIATE
1/8" FIBERBOARD SHEATHING	6d	3" O.C. @ EDGES 6" O.C. @ INTERMEDIATE

A. NAILS, BOLTS AND OTHER METAL CONNECTORS WHICH ARE USED IN LOCATIONS EXPOSED TO THE WEATHER SHALL BE GALVANIZED OR OTHERWISE CORROSION RESISTANT.

B. IN GENERAL, NAILS SHALL PENETRATE THE SECOND MEMBER A DISTANCE EQUAL TO THE THICKNESS OF THE MEMBER BEING NAILED THERETO, OR GREATER.

C. THERE SHALL BE NOT LESS THAN 2 NAILS PER CONNECTION.

D. GLUING SHALL NOT BE CONSIDERED AN ACCEPTABLE CONNECTOR IN LIEU OF THOSE SPECIFIED HEREIN.

E. FORMED METAL CONNECTORS, AS PER THE SCHEDULE HEREIN, SHALL HAVE THE NUMBER OF NAILS INSTALLED AS REQUIRED BY THE MANUFACTURER, OR AS DIRECTED BY THE PLANS.

F. NAILS PROJECTING BEYOND THE LAST WOOD MEMBER SHALL BE CLINCHED, WHEREVER POSSIBLE.

G. NOTES IN THE "PLANS" PACKAGE OF THE CONSTRUCTION DOCUMENTS SUPERSEDE SIZES & SPACINGS OF NAILS CONTAINED HEREIN.

REVISION:

DRAWN: MP8

CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
STRUCTURAL DETAILS

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-755-9021

DATE: 25 JAN 2008
COMM: 2K804

SHEET: A.6
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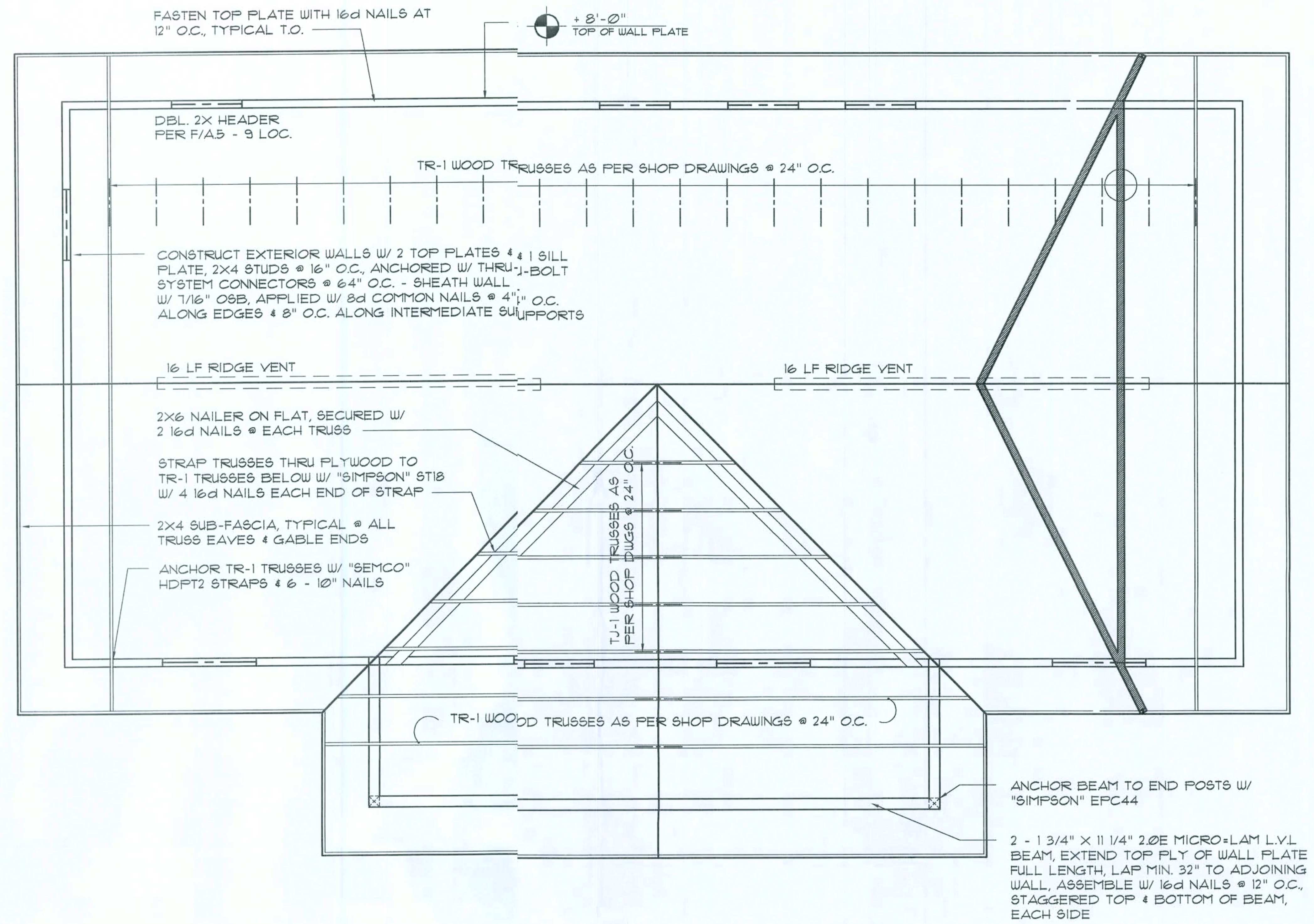
31 Jan 08
ARCH07005

FIELD "AS-BUILT" NOTES



Roof Framing PLAN

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

NOTE!
ALL PENETRATIONS OF THE TOP PLATE OF ALL LOAD BEARING WALLS SHALL BE SEALED WITH FIRE RETARDANT CAULKING, INCLUDING WIRING, PLUMBING OR OTHER SUCH PENETRATIONS. WALLS OVER 8'-0" TALL SHALL HAVE CONTINUOUS BLOCKING TO LIMIT CAVITY HEIGHT TO 8'-0". PENETRATIONS THROUGH SUCH BLOCKING SHALL BE TREATED IN THE SAME MANNER AS TOP PLATES, NOTED ABOVE

NOTE!
SHEATH ROOF W/ 1/2" CDX PLYWOOD PLACED W/ LONG DIMENSION PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING W/ 8d NAILS - AS PER DETAIL ON SHEET A5

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 110 MPH PER FBC 1606 AND LOCAL JURISDICTION REQUIREMENTS

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUF'R/MODEL	CAP.
TRUSS TO WALL:	SEMCO HDPT2, W/ 6 - 10d NAILS	960#
GIRDER TRUSS TO POST/HEADER:	SIMPSON LGT, W/ 28 - 16d NAILS	1785#
HEADER TO KING STUD(S):	SIMPSON ST22	1370#
PLATE TO STUD:	SIMPSON SP2	1065#
STUD TO SILL:	SIMPSON SP1	585#
PORCH BEAM TO POST:	SIMPSON PC66/EPC66	1700#
PORCH POST TO FND.:	SIMPSON ABU66	2300#
MISC. JOINTS	SIMPSON A34	315#/240#

NOTE:
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

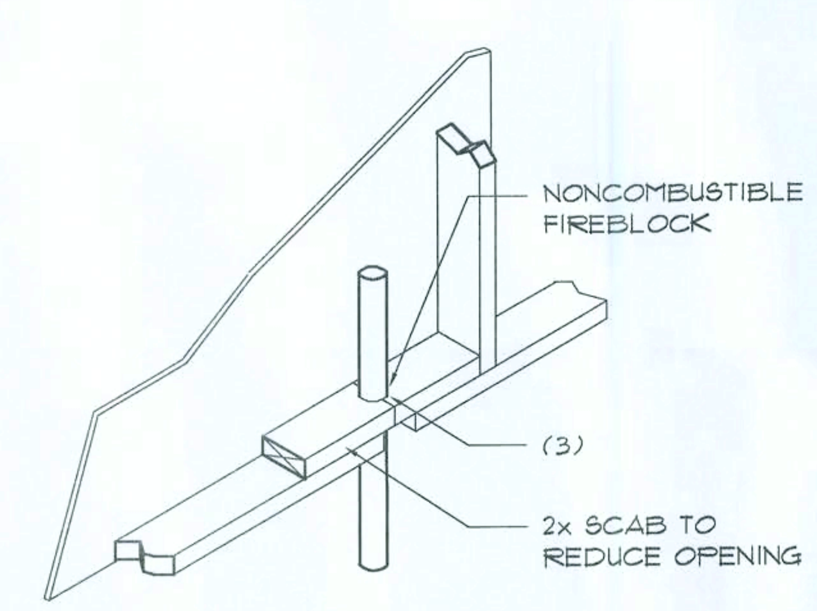
NOTE:
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:
"SEMCO" PRODUCT APPROVAL:
MIAMI/DADE COUNTY REPORT #95-0818.15

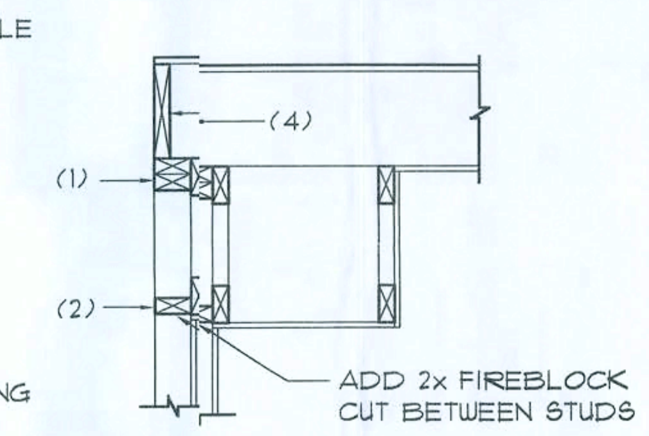
NOTE:
"SIMPSON" PRODUCT APPROVALS:
MIAMI/DADE COUNTY REPORT #97-0107.05, #96-1126.11, #99-0623.04
SBCCI NER-443, NER-393

WOOD STRUCTURAL NOTES

1. TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORARY & PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".
2. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER & SHALL BE SIGNED AND SEALED BY SAME. TRUSS DESIGN SHALL INCLUDE PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".
3. WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN Nr2 HEM-FIR OR BETTER.
4. CONNECTORS FOR WOOD FRAMING SHALL BE GALVANIZED METAL OR BLACK METAL AS MANUFACTURED OR AS CALLED FOR IN THE PLANS AND BE OF A DESIGN SUITABLE FOR THE LOADS AND USE INTENDED. REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR PRINCIPLE CONNECTIONS.



PENETRATIONS



SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

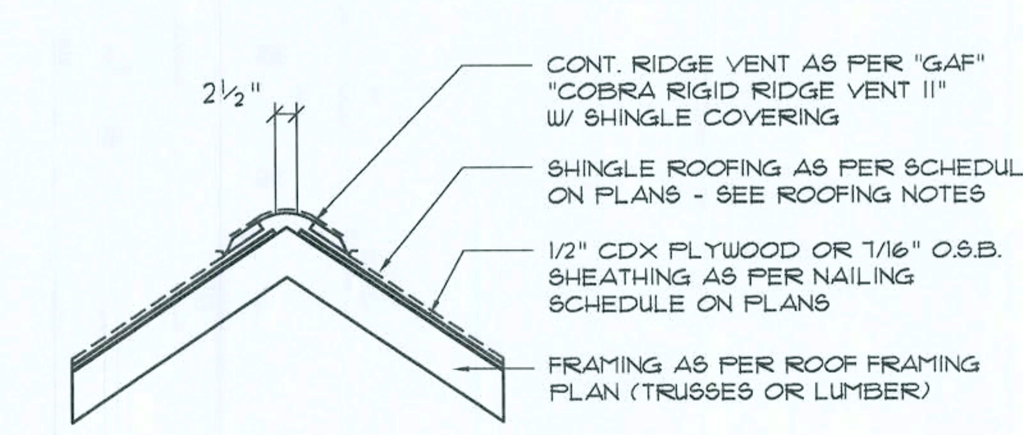
FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIFLEX SEALANT"
4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS (A)

SCALE: NONE

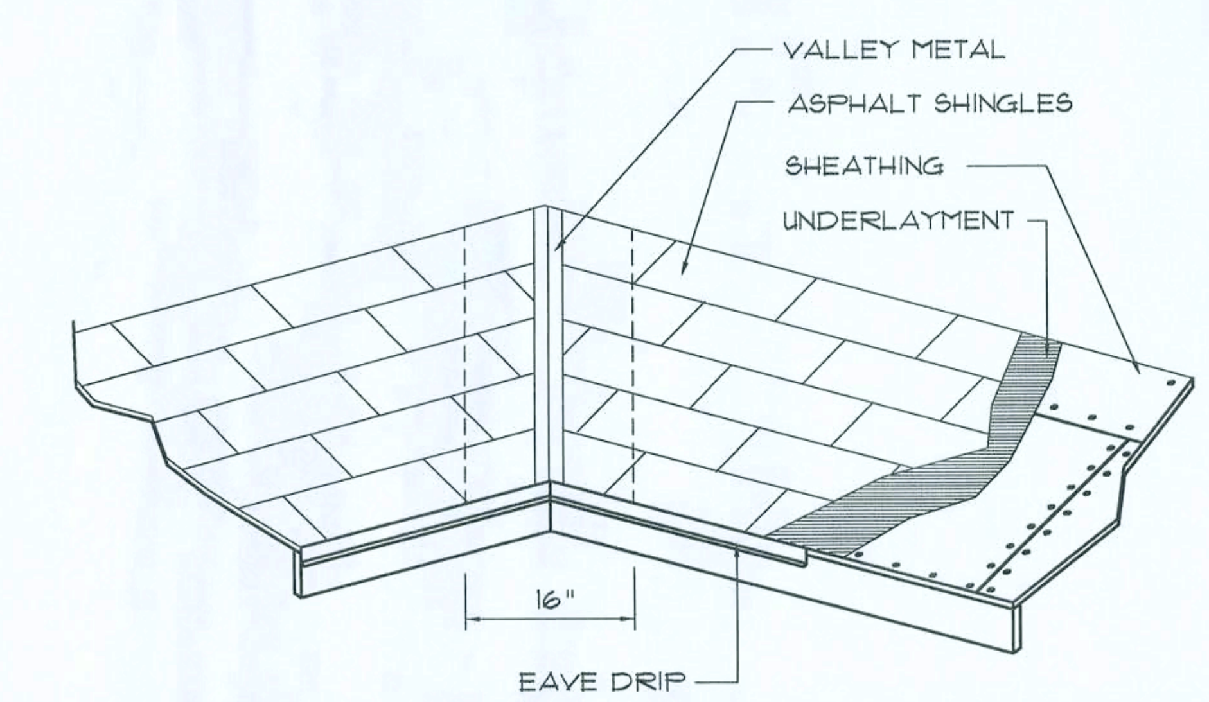
AREA OF ATTIC	REQ'D L.F. OF VENT	NET FREE AREA OF INTAKE
1600 SF	20 LF	410 SQ.IN.
1900 SF	24 LF	490 SQ.IN.
2200 SF	28 LF	570 SQ.IN.
2500 SF	32 LF	650 SQ.IN.
2800 SF	36 LF	730 SQ.IN.
3100 SF	40 LF	820 SQ.IN.
3600 SF	44 LF	900 SQ.IN.



MIAMI/DADE PRODUCT APPROVAL REPORT: #98-0713.05

Ridge Vent DETAIL (B)

SCALE: 3/4" = 1'-0"



VALLEY FLASHING

ROOFING METALS for FLASHING/ROOFING
MINIMUM THICKNESS REQUIREMENTS

MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGHT (OZ.)
COPPER			16
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (ZINC COATED G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.027		 40 20

Roofing/Flashing DETS. (C)

SCALE: NONE

REVISION:

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DRAWN: NPG

CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
ROOF PLAN

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-755-9021

DATE: 29 JAN 2008

COMM: 2K804

SHEET: A.7

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AR0007005

GENERAL NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING THE THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
7. ALL WORK SHALL BE IN ACCORDANCE W/ APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABLES LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
10. INTERIOR BEARING WALLS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333", BATT INSULATION SHALL BE INCLUDED WHERE UNCONDITIONED AREA IS BEING SEPARATED FROM HEATED / COOLED AREA.
11. INTERIOR STUD WALLS SEPARATING LIVING AREA FROM GARAGE AREAS SHALL BE CONSTRUCTED IN COMPLIANCE WITH "UL Design U333", INCLUDING R-11 BATT INSULATION.
12. CEILINGS OVER ATTACHED GARAGES OR GARAGES W/ LIVING AREA ABOVE SHALL BE 5/8" FIRECODE "C" GWB ON 1X3 WOOD FURRING AT 16" O.C., ATTACHED W/ 1 1/4" BUGLEHEAD SCREWS @ 6" O.C. ALONG EACH POINT OF BEARING.

AS - BUILT DRAWING REQUIREMENTS:

A. **ELECTRICAL "AS-BUILT" DRAWINGS**
ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

B. **H.V.A.C. "AS-BUILT" DRAWINGS**
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING REPORT - CONT'R SHALL PROVIDE 1 COPY OF AS-BLT. DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

C. **PLUMBING "AS-BUILT" DRAWINGS**
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

GENERAL MILLWORK NOTES:

1. MILLWORK SUB-CONTRACTOR PROVIDING CASEWORK, MILLWORK OR THE LIKE FOR THIS PROJECT SHALL BE SUBJECT TO THE PROVISIONS OF NOTES THRU 6 OF THE GENERAL NOTES, THIS SHEET.
2. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: FABRICATION AND DELIVERY OF MILLWORK, SHOWN IN THE DRAWINGS, TO THE JOB SITE, INSTALLATION OF CABINET HINGES, CATCHES, DRAWER TRAY GUIDES, ADJUSTABLE SHELF STANDARDS & SURFACE BOLTS.
3. ALL APPLICABLE STANDARDS OF "AWI QUALITY STANDARDS & GUIDE SPECIFICATIONS" APPLY TO THIS PROJECT, UNLESS NOTED OTHERWISE.
4. AWI "CUSTOM" GRADE EXCEPT AS OTHERWISE NOTED OR DIRECTED BY THE OWNER, SHALL BE THE BASE STANDARD OF QUALITY REQ'D FOR THIS WORK.
5. MILLWORK SUB-CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE OWNER, THE FOLLOWING ITEMS, PRIOR TO FABRICATING ANY MAT'LS OR MILLWORK: COMPLETE SET OF SHOP DRAWINGS, SAMPLES OF WD. SPECIES RECEIVING TRANSPARENT FINISH, MFR'S LITERATURE FOR ALL SPECIALTY ITEMS NOT MFD. BY THE ARCHITECTURAL WOODWORK FIRM AND HARDWARE SCHEDULE, SHOWING HARDWARE USED AT EA. LOCATION & CONFORMANCE W/ THE DESIGN INTENT OF THE DRAWINGS OR DIRECTIVES ISSUED BY THE OWNER.
6. PRODUCTS SHALL INCLUDE THE FOLLOWING:
   - SOFTWOOD - SOLID STOCK PINE, C OR BETTER
   - HARDWOOD - SPECIES AS SELECTED BY OWNER
   - PLYWOOD, OPAQUE FINISH - FIR, GRADE A/B
   - PLYWOOD, TRANSPARENT FINISH - SPECIES AS SELECTED BY OWNER
   - PARTICLE BOARD - HIGH DENSITY, W/ RESIN BINDER
   - LAM. PLASTIC - MFG, COLORS, PATTERNS & TEXTURES AS SELECTED BY OWNER
   - LAMINATING ADHESIVES - POLYVINYL ACETATE, UREA-FORMALDEHYDE, CASEIN
7. ASSEMBLE WORK AT MILL & DELIVER TO JOB SITE READY TO INSTALL INSOFAR AS POSSIBLE.
8. PROTECT MILLWORK FROM MOISTURE & DAMAGE WHILE IN TRANSIT TO THE JOB SITE. UNLOAD AND STORE IN A PLACE WHERE IT WILL BE PROTECTED FROM MOISTURE AND DAMAGE AND BE CONVENIENT FOR INSTALLATION.
9. FABRICATE WORK IN ACCORDANCE WITH MEASUREMENTS TAKEN AT THE JOB SITE.
10. INSTALL HARDWARE IN ACCORDANCE WITH MANUFR'S DIRECTIONS. LEAVE OPERATING HARDWARE OPERATING SMOOTHLY & QUIETLY.
11. DAMAGED SURFACES SHALL BE REPAIRED TO MATCH UNDAMAGED ADJACENT PORTION OF THE WORK.

GENERAL H.V.A.C. NOTES:

1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES/D.1a.
2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE & OPERATING HVAC SYSTEM.
3. HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED), OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
4. HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DWGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
5. IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90 AND ALL APPLICABLE CODES.
6. FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1/4 LB. DENSITY FIBERGLASS INSULATION AND SHALL BE U.L. LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MATFACED DUCT LINER & WRAPPED W/ 1 3/4 LB. FOILFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOILFACED, R4.2/R6.0 DUCTBOARD.
7. ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMANA STANDARDS.
8. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURER'S SHALL BE TITUS, METALAIRE, NAILOR HART, HART & COOLIE OR AS DIRECTED BY THE OWNER.
9. IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY, TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGN AND SEALED BY A REGISTERED ENGINEER.
10. HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS, AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MFG'R.
11. ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSIONS.
12. ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSOR(S) SHALL BE WARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE, BY THE OWNER.
13. ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDERANCE TO COMPLETION OF THE JOB.
14. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.
15. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT ARESTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15. PROVIDE 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
16. HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
17. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
18. COORDINATE W/ THE ELECTRICIAN, PARTICULARLY ELECTRICAL NOTE Nr. 29, TO ASSURE SUITABLE SIZES OF BREAKERS, SWITCHES AND WIRING.

GENERAL PLUMBING NOTES:

1. SUB-CONTRACTORS PROVIDING PLUMBING MATERIALS AND INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
3. ALL MATERIALS SHALL BE NEW.
4. ALL WORK SHALL BE PREFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL.
5. ALL EXCAVATION & BACKFILL AS REQUIRED FOR THIS PHASE OF THE CONSTRUCTION SHALL BE PART OF THE PLUMBING SUB-CONTRACTOR'S RESPONSIBILITIES.
6. PLUMBING FLAT PLANS AND RISER DIAGRAMS (IF INCLUDED) ARE DIAGRAMATIC. DO NOT SCALE THE DRAWINGS FOR EXACT LOCATIONS OF THE PLUMBING FIXTURES.
7. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF THE CONSTRUCTION.
8. WATER PIPING SHALL BE TYPE L COPPER UP TO 1", & TYPE K FOR ALL LARGER SIZES. ALL UNDERGROUND PIPING SHALL BE TYPE K COPPER. AT THE OWNERS OPTION SUPPLY PIPING MAY BE C.P.V.C., SCHEDULE 40 OR SCHEDULE 80.
9. DO NOT USE LEAD BASED SOLDER FOR JOINING SUPPLY PIPING.
10. SOIL, WASTE, VENT & RAINWATER PIPING SHALL BE CAST IRON NO-HUB 301-72 ABOVE GRADE WITH NEOPRENE GASKETS AND STAINLESS STEEL BANDS & BELL & SPIGOT CAST IRON BELOW GRADE W/ LEAD & OAKUM JOINTS OR AT THE OWNERS OPTION, P.V.C., SCHEDULE 40, SEE NOTE 12.
11. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE THREADED STEEL PIPE, COPPER DRAIN, WASTE OR VENT PIPE AND FITTINGS, OR P.V.C., SEE NOTE 12, BELOW. INSULATE ALL CONDENSATE PIPING EXCEPT WHERE UNDERGROUND, AND ELECTRIC HEAT WRAP WHERE EXPOSED TO FREEZING CONDITIONS.
12. P.V.C. SCHEDULE 40 PIPE AND FITTINGS MAY BE USED FOR SOIL, WASTE, VENT, RAINWATER OR CONDENSATE PIPING AS APPROPRIATE, WHERE APPROVED BY LOCAL BUILDING CODES & OFFICIALS. P.V.C. MAY NOT BE USED TO PENETRATE CHASES OR FIRE RATED WALLS / CEILINGS.
13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND WHERE PROVIDED, MARKED ACCESS PANELS.
14. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE AND APPROVED SHOCK ARRESTERS ON MAIN LINE OR RISERS.
15. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
16. ISOLATE COPPER PIPING FROM HANGERS OR SUPPORTS W/ HAIR FELT INSULATOR PADS.
17. PROVIDE 1/2" TRAP PRIMER LINE FOR ALL FLOOR DRAINS FROM NEAREST PLUMBING FIXTURE, DO NOT MANIFOLD.
18. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES.
19. PROVIDE COMBINATION COVERPLATE / CLEANOUT PLUG FOR ALL WALL CLEANOUTS, FINISH AS DIRECTED BY THE OWNER.
20. FIXTURES, HARDWARE, EQUIPMENT, COLORS AND FINISHES SHALL BE AS SELECTED BY THE OWNER.

GENERAL WELL & SEPTIC NOTES:

1. SUB-CONTRACTORS PROVIDING WATER WELLS AND/OR SEPTIC TANKS AND DRAINFIELDS SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, THIS SHEET
2. LOCATION OF POTABLE WATER WELLS SHALL BE DETERMINED BY THE OWNER IN CONSULTATION WITH THE WELL DRILLING CONTRACTOR. WELLS SHALL NOT BE LOCATED CLOSER THAN 75'-0" TO ANY PROPOSED OR EXISTING SEPTIC TANK OR DRAINFIELD, EITHER ON SUBJECT PROPERTY OR ADJACENT/ADJOINING PROPERTY.
3. POTABLE WATER WELLS SHALL BE A MINIMUM 4"ø WITH BLACK IRON CASING TO A DEPTH OF 80'-0". PUMPS SHALL BE OF THE SUBMERSIBLE TYPE, THREE WIRE SYSTEM, MINIMUM HORSEPOWER SHALL BE 1/2 H/P OR AS DIRECTED BY THE OWNER, MOTOR STARTER SHALL BE ENCLOSED IN A WEATHERPROOF HOUSING, MOUNTED ON A P/T 4X4 POST AT THE WELL HEAD.
4. WELL HEAD SHALL PROJECT 12" ABOVE GRADE.
5. ALL REQUIRED COMPONENTS FOR A COMPLETE OPERATING SYSTEM SHALL BE PROVIDED, INCLUDING ANTI-FREEZE BLEEDER FITTING, CHECKVALVE, AIR BLEEDERS, SHUTOFF VALVE, HOSE BIBB, PRESSURE REGULATOR/CONTACTOR, UNIONS AND PRESSURE GAUGE.
6. PRESSURE TANK SHALL BE GALVANIZED 82 GALLON CAPACITY, UNLESS DIRECTED OTHERWISE BY THE OWNER.
7. SEPTIC TANK LOCATION & DRAINFIELD INVERT SHALL BE DETERMINED BY THE LOCAL HEALTH DEPARTMENT, IN CONSULTATION W/ THE OWNER.
8. SEPTIC TANKS SHALL BE OF A SIZE & CONSTRUCTION AS DETERMINED BY THE LOCAL HEALTH DEPARTMENT. TANK MAT'L SHALL BE POURED CONCRETE OR FIBERGLASS AS ALLOWED BY THE SEPTIC TANK PERMIT.
9. SEPTIC DRAINFIELDS SHALL BE CONSTRUCTED TO THE STANDARDS OF THE LOCAL HEALTH DEPARTMENT. DRAINFIELD PIPING SHALL BE CLAY TILE OR P.V.C. OR POLY AS ALLOWED BY THE SEPTIC TANK PERMIT. DRAINFIELD BEDS SHALL BE 3/4" WASHED ROCK, INSTALLED THICKNESS SHALL BE AS PER SEPTIC TANK PERMIT.
10. SAND FILTER BEADS, MOUND SYSTEMS, DOSING TANKS, GREASE TRAPS, DISTRIBUTION BOXES, GRINDER PUMPS, SUMP PUMPS AND OTHER SUCH RELATED ITEMS (IF REQUIRED OR REQUESTED) SHALL BE AS PER THE DESIGN STANDARDS OF THE LOCAL HEALTH DEPARTMENT.

ELECTRICAL NOTES: General

1. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER.
2. INSTALL ALL ELECTRICAL WORK IN CONFORMANCE WITH THE NEC 1997 EDITION, AND IT'S AMENDMENTS AS ADOPTED BY THE PERMIT ISSUING AUTHORITY AT THE TIME OF CONSTRUCTION.
3. GROUNDING: GROUND ALL MAIN DISCONNECTS TO STANDARD GROUND ROD(S) AND TO COLD WATER SUPPLY AS PER ARTICLE 250 OF NEC-1994.
4. INSTALL ONLY COPPER WIRING ON THIS PROJECT: THW, TW, THWN, THHN OR NM CABLE, UNLESS NOTED OTHERWISE. ALL CONDUCTORS #10 & SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED TYPE.
5. PROVIDE CONTINUITY OF NEUTRAL ON MULTI-BRANCH CIRCUITS BY SPLICING AND BRINGING OUT A TAP, ASSURING NO OPENINGS OF NEUTRAL IN REPLACEMENT OF A DEVICE.
6. COLOR CODE MULTI-CIRCUIT WIRING AS FOLLOWS: NEUTRAL - WHITE, GROUND - GREEN, LINE - ALL OTHER COLORS.
7. INSTALL ONLY HIGH POWER FACTOR BALLASTS AT FLUORESCENT FIXTURES.
8. INSTALL GFI BREAKERS OF DEVICES AT ALL BATHROOM, RESTROOM, KITCHEN, GARAGE AND EXTERIOR RECEPTACLES AND AS NOTED ON THE DRAWINGS.
9. INSTALL ONLY THOSE ELECTRICAL DEVICES THAT BEAR A "UL" OR OTHER RECOGNIZED TESTING LAB LABEL. ALL MATERIALS SHALL BE NEW.
10. INSTALL NON-FUSED DISCONNECT SWITCHES AT ALL PIECES OF ELECTRICAL EQUIPMENT LOCATED WHERE SAID EQUIPMENT IS NOT VISIBLE FROM THE CIRCUIT BREAKER THAT PROTECTS IT: SIZE IN ACCORD WITH THE LOAD. ALL DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE - QUICK-BREAK TYPE - ENCLOSURES SHALL BE AS REQ'D FOR EXPOSURE.
11. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC WITH OVERLOAD RELAYS IN EACH HOT LEG.
12. ISOLATE DISSIMILAR CONDUIT AND TUBING METALS FROM SOIL, WATER AND GAS PIPING AND OTHER BUILDING MATERIALS WHERE DAMAGE BY FRICTION OR ELECTROLYSIS MAY OCCUR, EXCEPT WHERE ELECTRICAL GROUND IS PROVIDED.
13. FURNISH AND INSTALL ALL ELECTRICAL DEVICES AND ITEMS REQUIRES FOR A COMPLETE, OPERATING SYSTEM, PROVIDING THE FUNCTIONS AS DETAILED IN THE PLANS (AND SPECS).
14. OUTLET BOXES SHALL BE PRESSED STEEL OR PLASTIC OR ALL DRY LOCATIONS. FOR WET LOCATIONS, CAST ALLOY WITH THREADED HUB OUTLET BOXES SHALL BE INSTALLED.
15. HOT CHECK ALL SYSTEMS WITH THE OWNER'S REPRESENTATIVE PRESENT TO VERIFY PROPER FUNCTION PRIOR TO C.O.
16. COORDINATE ALL WORK THROUGH GC TO AVOID CONFLICTS. COORDINATE WITH HVAC CONTRACTOR AND ELECTRONICS SYSTEMS CONTRACTORS SO THAT A COMPLETE, FUNCTIONING SYSTEM IS INSTALLED, IN EACH CASE, WITH NO EXTRA COST TO THE OWNER.
17. EMERGENCY LIGHTING AND EXIT SIGNS, IF INDICATED ON THE PLANS, SHALL BE WIRED PER NEC 700-12F.
18. ALL PANEL SCHEDULES SHALL BE FULLY FILLED OUT AND SHALL BE TYPEWRITTEN. EA. CIRCUIT SHALL BE CLEARLY IDENTIFIED A TO WHAT IS INCLUDED ON SAID CIRCUIT.
19. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION.
20. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER COMPANY & TELEPHONE COMPANY.
21. FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR HVAC SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR, AND CONNECTED BY THE ELECTRICAL CONTRACTOR.
22. ALL RACEWAYS BELOW GROUND SHALL BE A MINIMUM OD 3/4".
23. ALL CIRCUIT BREAKERS, TWO AND THREE POLE, SHALL BE COMMON TRIP. NO TIE HANDLES OR TANDEMS SHALL BE ACCEPTABLE.
24. ALL FUSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS, SHALL BE CURRENT LIMITED TYPE (C.L.) RATED 200,000 AIC.
25. ELECTRICAL CONTRACTOR SHALL VERIFY ALL COMPONENTS FOR ALL ELECTRICAL APPLICATIONS & DETERMINE THE CORRECTNESS OF SAME. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER PRIOR TO FABRICATING ANY MATERIALS, ORDERING COMPONENTS OR DOING ANY WORK.
26. CIRCUITS ON PANEL SCHEDULE (AND PLANS) ARE TO DETERMINE LOAD DATA AND SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS AND WIRING TO SUIT JOB CONDITIONS, AND BALANCE THE JOB, THROUGHOUT.
27. CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMPERAGE RATING PRIOR TO CONNECTION TO CIRCUITS.
28. PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE. VERIFY NUMBER AND SIZES OF CIRCUITS.
29. WHEN CONDUIT RUNS EXCEED 200 FEET, PULL BOXES SHALL BE INSTALLED SO THAT NO PULL EXCEEDS THIS DISTANCE.
30. ELECTRICAL EQUIPMENT AIC RATING AND FEEDER SIZE SHOWN ON THE PLANS ARE DESIGNED FOR MAX. AVAILABLE FAULT CURRENT AND MAX. ALLOWABLE VOLTAGE DROP, RESPECTIVELY.

PROJECT INFORMATION / NOTES:

DESIGN VALUES/LOADS & CODES

WIND DESIGN SPEED: 110 MPH, UNLESS NOTED OTHERWISE

SOIL DESIGN STATEMENT:
FOOTING DESIGN IS BASED UPON 1000PSF SOIL BEARING PRESSURE PROVIDED BY CLEAN SAND, GRAVEL OR STONE. OTHER SOIL CONDITIONS ie: CLAY, HIGH LEVEL OF ORGANICS OR OTHER UNDESIRABLE SOILS SHALL REQUIRE FOUNDATION MODIFACATIONS.

LIVE LOADS: 1st FLOOR: 40PSF, 2nd FLOOR: 30PSF, ROOF: AS DETERMINED BY SHAPE FACTORS APPLIED TO THE WIND FORCE GENERATED BY THE DESIGN WIND SPEED.

BUILDING CODE: 2004 FLORIDA BUILDING CODE

ELECTRICAL CODE: NATIONAL ELECTRICAL CODE - LATEST
LIFE SAFETY: NFPA-101 - LATEST

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

INORGANIC ARSENICAL PRESSURE TREATED WOOD

SOME FRAMING MATERIALS SPECIFIED FOR THE CONSTRUCTION OF YOUR PROJECT SUCH AS SILLS OR EXTERIOR FRAMING ARE PRESSURE TREATED. EACH PIECE IS CLEARLY MARKED FOR EASY IDENTIFICATION AND IS USUALLY GREENISH IN COLOR.

THIS WOOD HAS BEEN PRESERVED BY PRESSURE-TREATMENT WITH AN EPA-REGISTERED PESTICIDE CONTAINING INORGANIC ARSENIC TO PROTECT IT FROM INSECT ATTACK AND DECAY. EXPOSURE TO TREATED WOOD MAY PRESENT CERTAIN HAZARDS, THEREFORE, PRECAUTIONS SHOULD BE TAKEN BOTH WHEN HANDLING THE TREATED WOOD AND IN DETERMINING WHERE TO USE OR DISPOSE OF THE TREATED WOOD.

FOR FURTHER INFORMATION ON THE USE OF AND DISPOSAL OF INORGANIC ARSENIC PRESSURE TREATED WOOD, PLEASE REFER TO THE EPA MATERIAL SAFETY SHEET DEALING WITH THIS PRODUCT.

General Roofing NOTES:

DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DBL. UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM W/ ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY W/ ASTM D 1970.

ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE THE SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.
1. OPEN VALLEYS LINED WITH METAL: THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.9.2.
2. OPEN VALLEYS: VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. CLOSED VALLEYS: VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
   1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
   2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
   3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE & COMPLYING WITH ASTM D 1970.

REVISION:

DRAWN:
NPG

CUSTOM RESIDENTIAL DESIGN for:
BAER TREE SERVICES - S&S CONSTRUCTION L.L.C.
COLUMBIA COUNTY, FLORIDA
GENERAL NOTES

NICHOLAS
PAUL
GEISLER
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DATE:
29 JAN 2008

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