

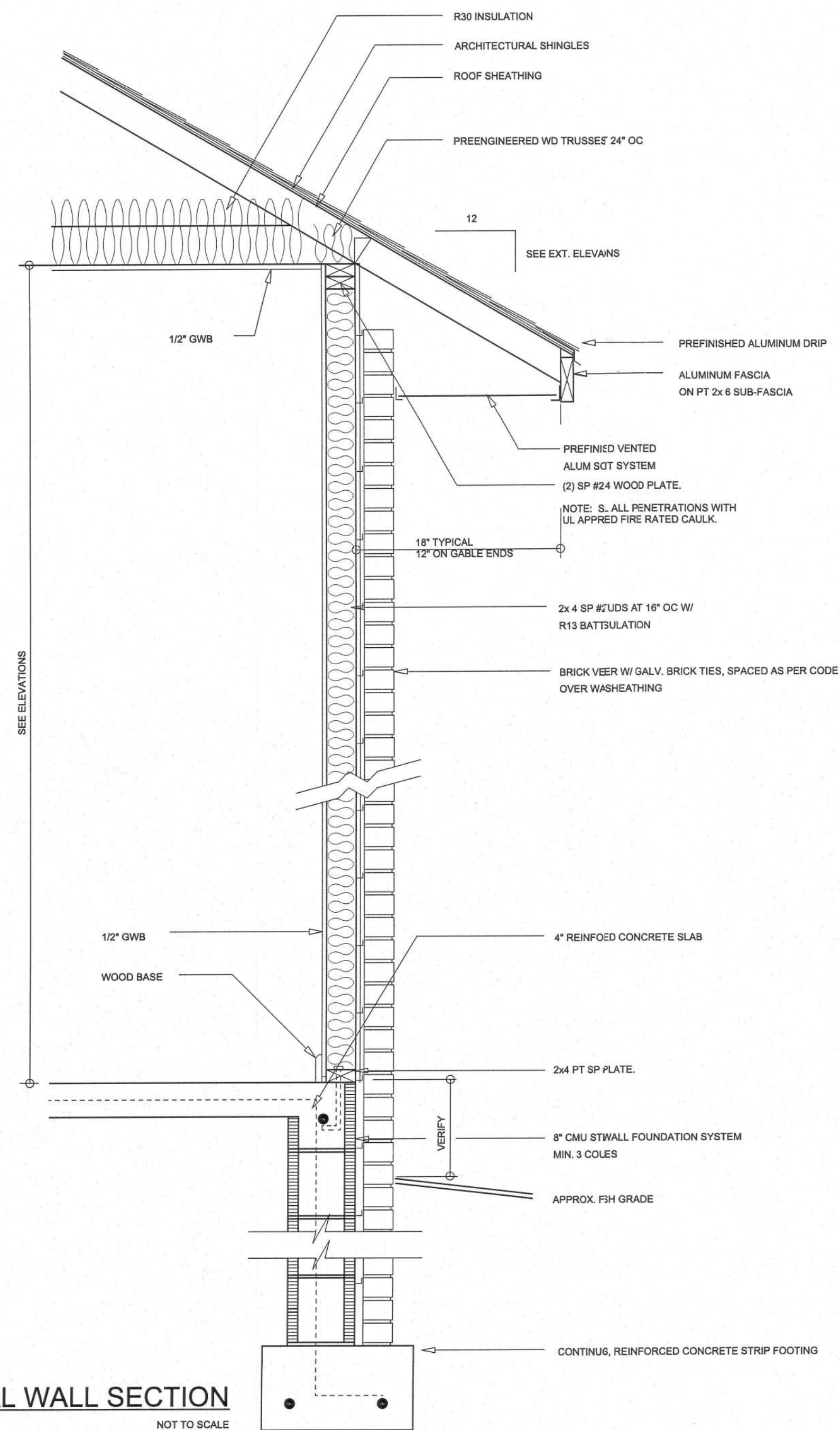
LEFT ELEVATION

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



RIGHT ELEVATION

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



TYPICAL WALL SECTION

SCALE: NOT TO SCALE



REAR ELEVATION

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



FRONT ELEVATION

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



REVISIONS SCHEDULE	
DATE	DESCRIPTION
June 10, 2010	ORIGINAL DRAWINGS

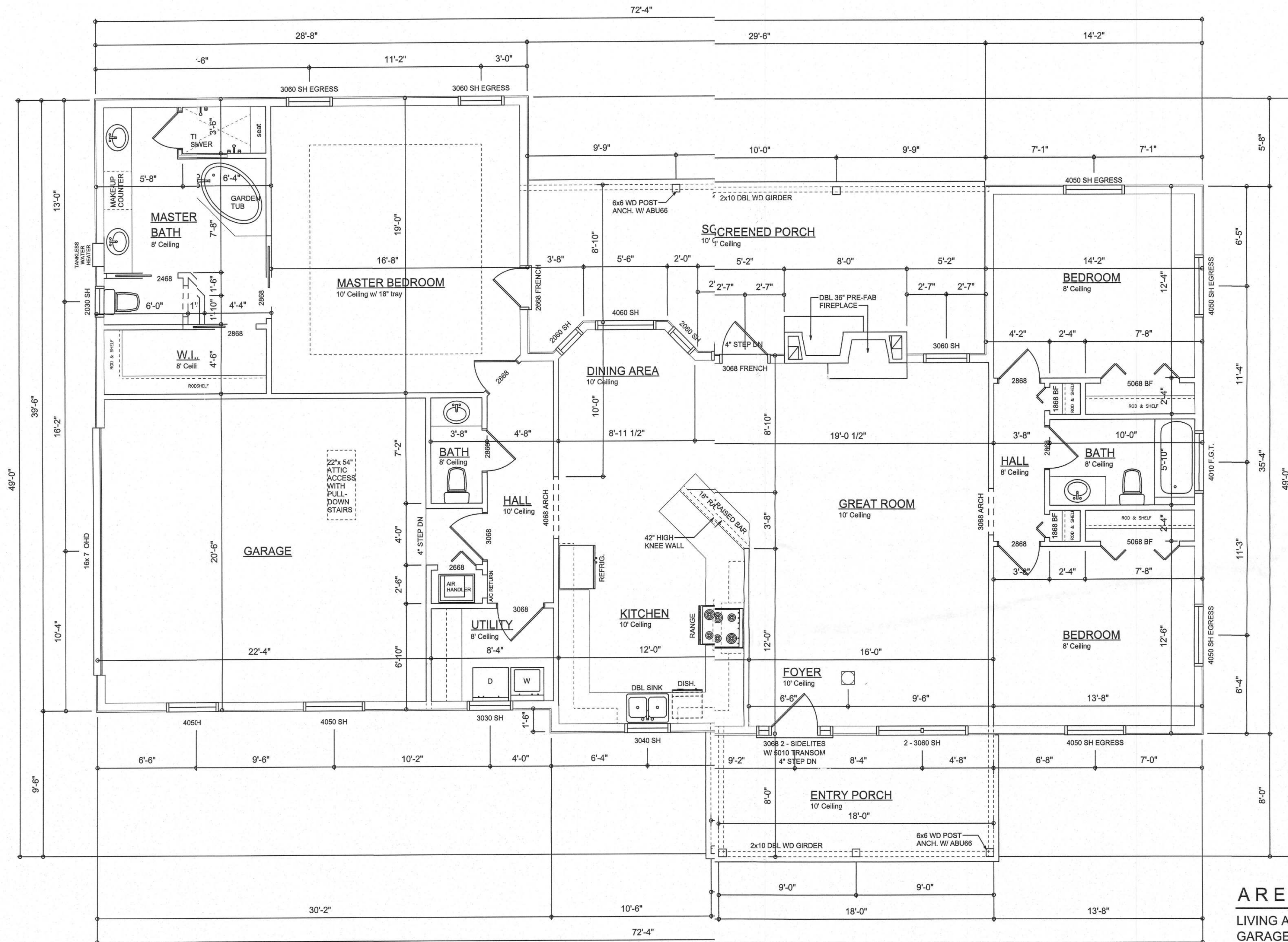
CUSTOM HOME DESIGN FOR:  
**TROY LAND RESIDENCE**  
LAKE CITY, FLORIDA 32024

JONATHAN MORRIS  
DRAFTING SERVICES  
263 SW ERN GLN.  
LAKE CITY, FLORIDA  
jonmorris@att.net

SHEET NUMBER

A.1  
OF 4 SHEETS





**DIMENSIONED FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

### AREA SUMMARY

LIVING AREA	1,911	S.F.
GARAGE AREA	457	S.F.
COVERED PORCH AREA	310	S.F.
ENTRY PORCH AREA	144	S.F.
<b>TOTAL AREA</b>	<b>2,822</b>	<b>S.F.</b>

REVISIONS SCHEDULE	
June 10, 2010	ORIGINAL DRAWINGS

CUSTOM HOME DESIGN FOR:

**TROY LAND RESIDENCE**

LAKE CITY, FLORIDA 32024

JONATHAN DRAFTING SERVICES

263 SW ERIN GUN  
LAKE CITY, FLORIDA  
(352) 888-8888  
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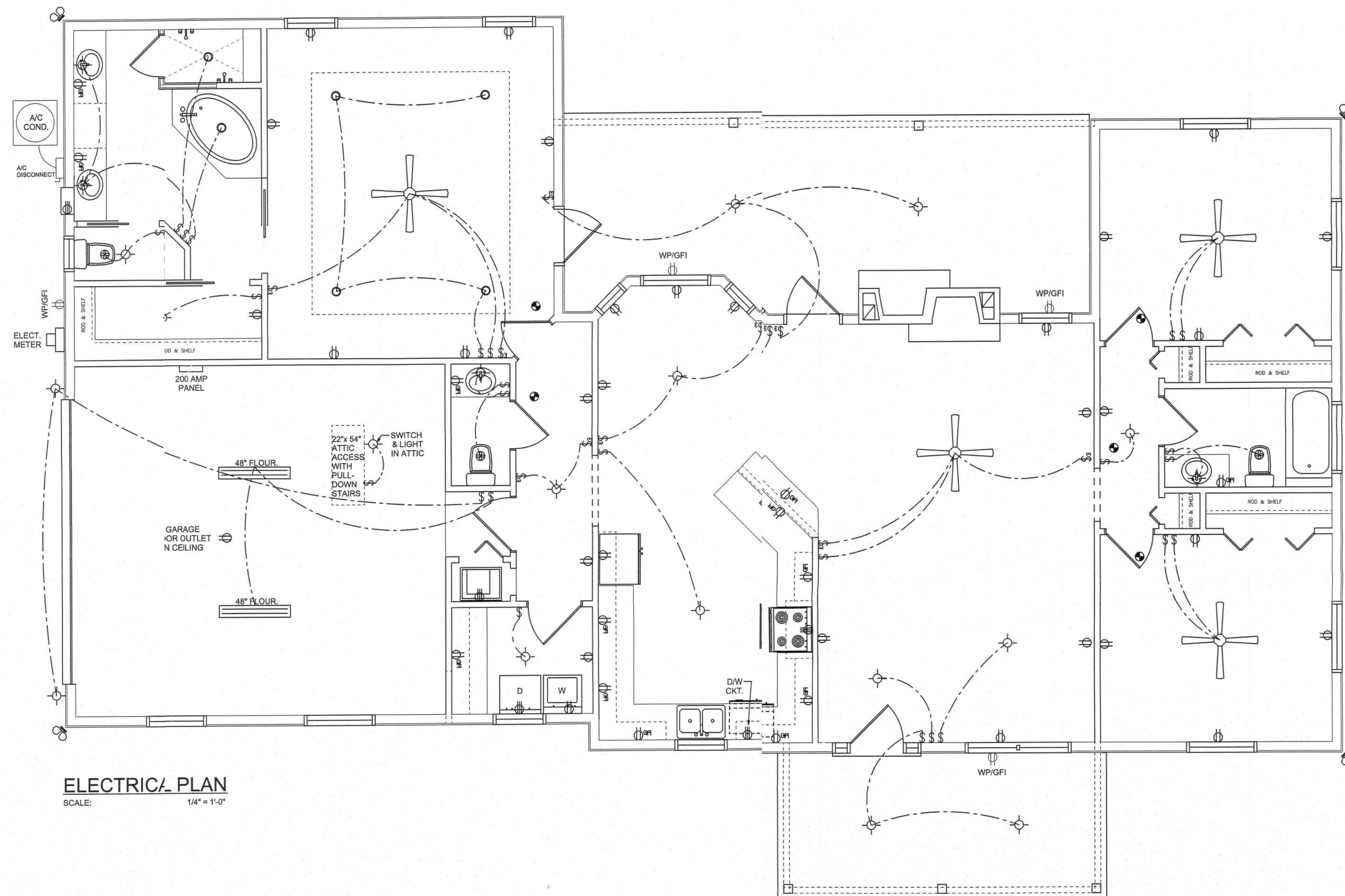
**JMORRIS**

SHEET NUMBER

**A.2**

OF 4 SHEETS





**ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
	DOUBLE SECURITY LIGHT
	RECESSED CAN LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET
	220v OUTLET
	GFI DUPLEX OUTLET
	SMOKE DETECTOR (see note below)
	WALL SWITCH
	3 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	2 OR 4 TUB FLUORESCENT FIXTURE

NOTE:  
ALL BEDROOM RECEPTACLES SHALL BE AFCI  
(ARC FAULT CIRCUIT INTERRUPT)

ALL SMOKE DETECTORS SHALL HAVE BATTERY BACKUP POWER  
AND ALL WIRED TOGETHER SO IF ANY ONE UNIT IS ACTUATED THEY  
ALL ACTIVATE.

*C.O. Detector Required*

NOTE:  
UFER grounding required per N.E.C.  
Arc fault breakers required per N.E.C.  
GFCI breakers required per N.E.C.  
Tamper resistant receptacles required per N.E.C.

REVISIONS SCHEDULE	
June 10, 2010	ORIGINAL DRAWINGS

CUSTOM HOME DESIGN FOR:

**TROY LAND RESIDENCE**

LAKE CITY, FLORIDA 33501

JONATHAN MORRIS

DRAFTING SERVICES

263 SW 8TH AVE. SUITE 100  
LAKE CITY, FLORIDA 33501  
813.445.1111

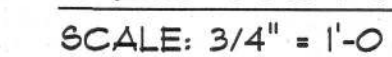
SHEET NUMBER

**A.3**

OF 4 SHEETS



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 PERFORMED 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 A108 - MIN. YIELD STRESS = 25 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-30 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 I OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.
11. 2x4 P/T WOOD SILL, CONT., ALL AROUND, W/ 5/8" A.B. W/ 3" SQ. X 1/4" PLATE WASHERS WITHIN 6" FROM EACH CORNER, E.A. WAY, 4 WITHIN 6" FROM ALL WALL OPENINGS / ENDS - 1/2" A.B. W/ 2" SQ. WASHERS ALONG EACH RUN = 48" O.C., MAX. - ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF 8" EMBEDMENT INTO THE CONCRETE.



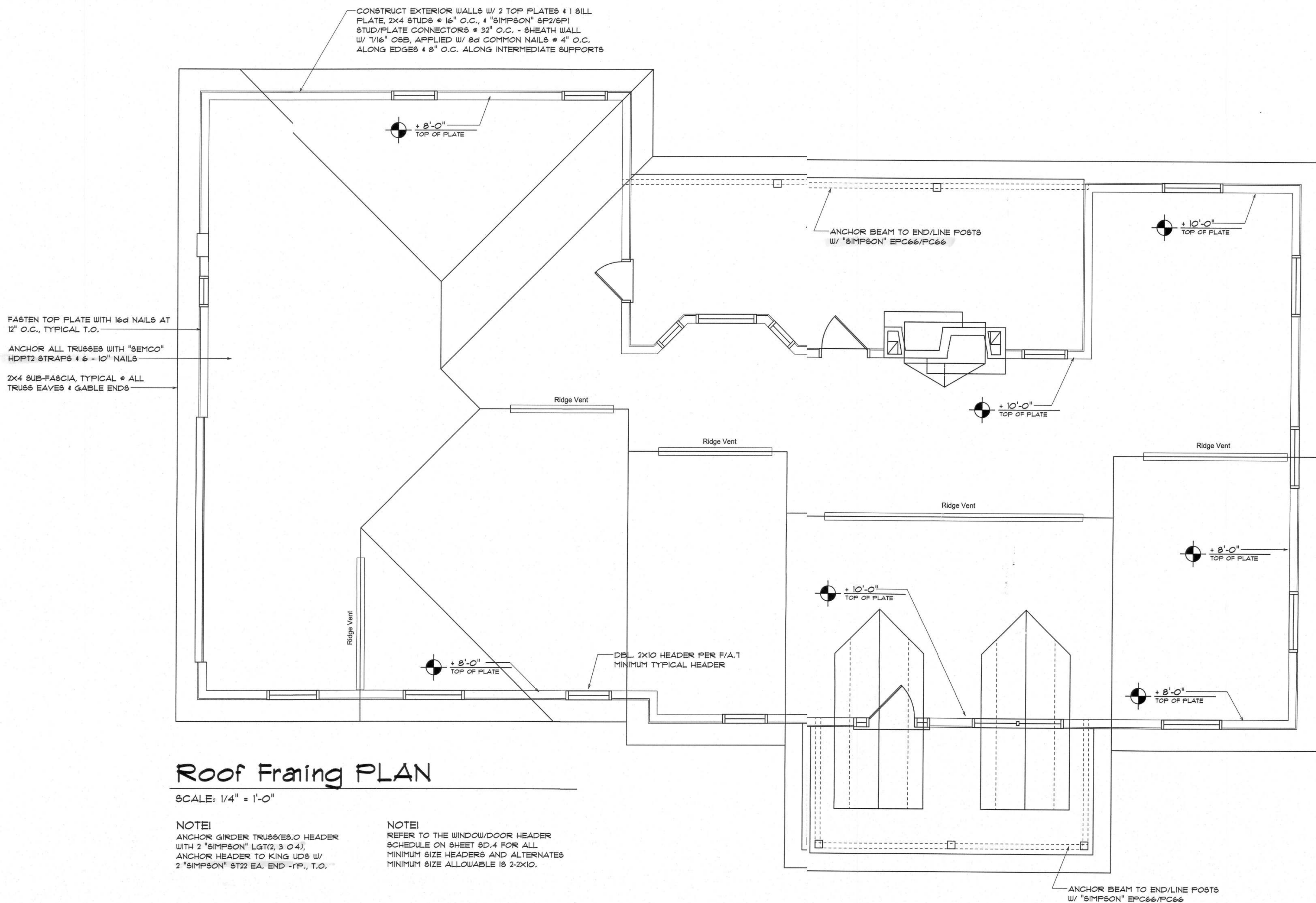
NOTE:  
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP  
DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL  
DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING  
REPORT - CONTR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS  
TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



SHEET NUMBER  
**S.1**  
OF 4 SHEETS

AR0001005  
02 Aug 2010





## Roof Framing PLAN

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

NOTE:  
ANCHOR GIRDER TRUSSES/EO HEADER WITH 2 "SIMPSON" LGT2, 3 O 4).  
ANCHOR HEADER TO KING UD8 W/ 2 "SIMPSON" ST22 EA. END - (P, T.O.

NOTE:  
REFER TO THE WINDOW/DOOR HEADER SCHEDULE ON SHEET SD.4 FOR ALL MINIMUM SIZE HEADERS AND ALTERNATES MINIMUM SIZE ALLOWABLE IS 2X10.

### ROOF PLAN NCES

- R-1 SEE ELEVATIONS FOR ROOF PITCH
- R-2 ALL OVERHANG 18" (1 on gables) UNLESS OTHERWISE NOTED
- R-3 PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH SCHEDULE ON SD.3
- R-4 SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY PILE AND HEEL HEIGHTS
- R-5 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS REAR

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 SD.4

NOTE:  
THE DESIGN WIND SPEED FOR THIS PROJECT IS 110 MPH PER FBC 1603 AND LOCAL JURISDICTION REQUIREMENTS

### NOTES

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

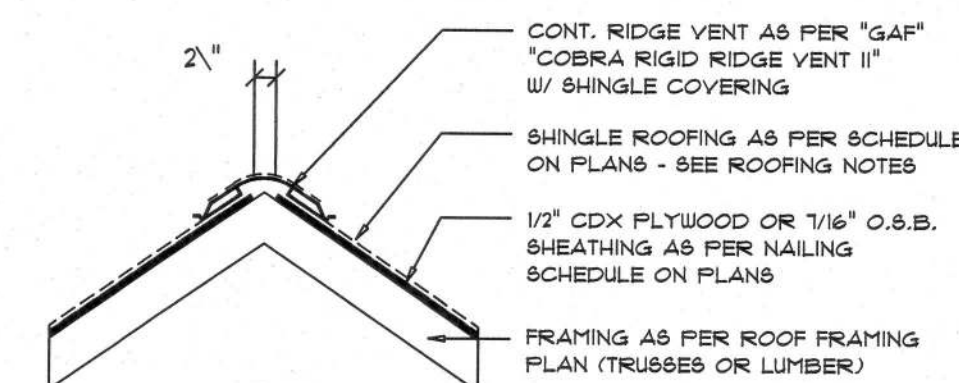
### GENERAL TRUSS NOTES:

- TRUSSES SHALL BE DESIGNED BY A LICENSED ENGINEER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NATIONAL FOREST PRODUCTS ASSOCIATION" "MANUAL FOR STRESS RATED LUMBER AND ITS CONNECTIONS", LATEST Ed., ALONG WITH THE "TRUSS PLATE INSTITUTE" SUGGESTED GUIDELINES FOR TEMPORARY AND PERMANENT BRACING, AND HANDLING OF TRUSSES. TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, DETS, & TRUSS TO TRUSS CONNECTIONS.
- TRUSS SHOP DRAWINGS SHALL BE SIGNED & SEALED BY THE DESIGNING ENGINEER.
- FOLLOWING DEVELOPMENT OF TRUSS SHOP DRAWINGS, ADJUSTMENTS TO THE ANCHOR REQUIREMENTS MAY BE REQUIRED DEPENDING ON THE ENGINEERED GRAVITY AND WIND UPLIFT REQUIREMENTS OF TRUSSES OR GIRDERS. THE CONTRACTOR SHALL MAKE AVAILABLE A COMPLETE SET OF TRUSS SHOP DRAWINGS TO THE ARCHITECT FOR THE PURPOSE OF REVIEW OF LOADS IMPOSED ON THE BALANCE OF THE STRUCTURE. ANY SUCH REQUIRED CHANGE SHALL BE INCORPORATED INTO THE CONSTRUCTION OF THIS STRUCTURE.

## WOOD STRUCTURAL NOTES

- 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".
- 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".
- WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN N.2 HEM-FIR OR BETTER.
- 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.

AREA OF ATTIC	REQ'D L.F. OF VENT	NET FREE AREA OF INTAKE
1600 SF	20 LF	410 SQ.IN.
1800 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	810 SQ.IN.
3600 SF	44 LF	900 SQ.IN.

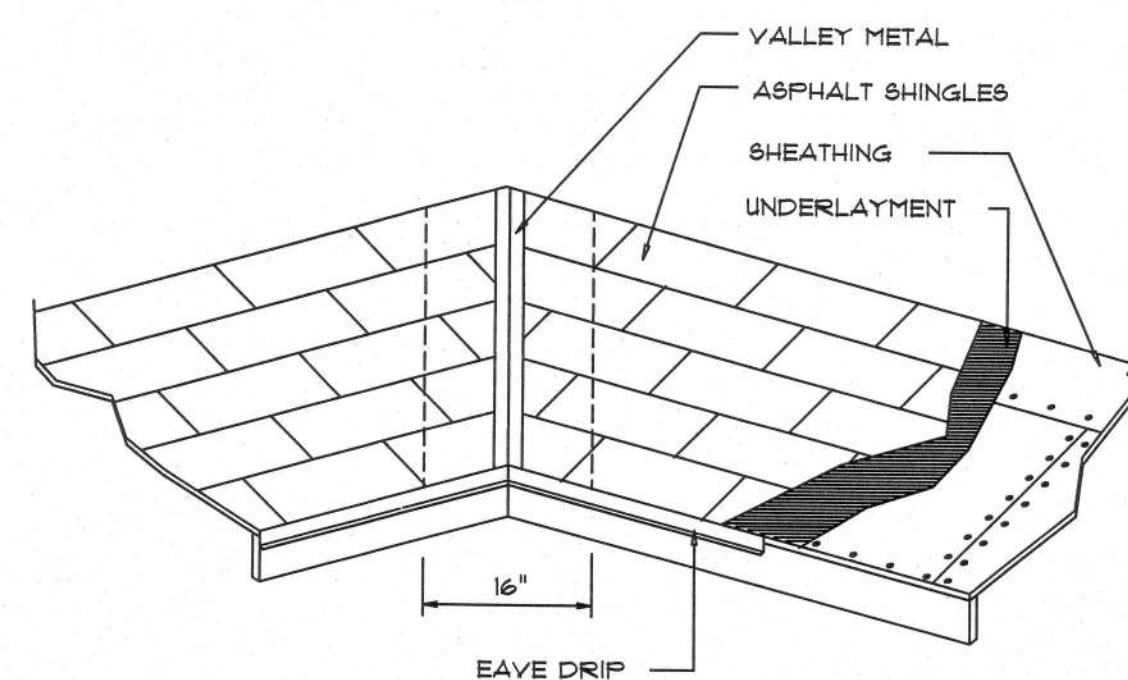


MIAMI/DADE PRODUCT APPROVAL REPORT: #38-013.05

### Ridge Vent DETAIL

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

B



### 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	0.0175	26 (ZINC COATED G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.021		40 20

### Roofing/Flashing DETS.

SCALE: NONE

A

REVISIONS
June 17, 2010

A CUSTOM HOME FOR:  
**TROY LAND**  
LAKE CITY, FL 32024

**NICHOLAS PAUL GEISLER ARCHITECT**  
N.C.A.R.B. Certified  
1750 NW Brown Rd.  
Lake City, FL 32055  
(386) 755-9021

SHEET NUMBER

**S.2**

OF 4 SHEETS

*Handwritten signature and date: 6/22/2010*  
AR0001005



# FLORIDA BUILDING CODE

## Compliance Summary

### TYPE OF CONSTRUCTION

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

### ROOF DECKING

Material: 1/2" CD Plywood or 1/16" O.S.B.  
 Sheet Size: 48"x96" Sheets Placed Vertical  
 Fasteners: 8d Common Nails per schedule on she A.1

### SHEARWALLS

Material: 1/2" CD Plywood or 1/16" O.S.B.  
 Sheet Size: 48"x96" Sheets Placed Vertical  
 Fasteners: 8d Common Nails @ 4" O.C. Edges & 10" O.C. Interior  
 Dragstrut: Double Top Plates (S.Y.F.) w/16d Nails @ 12" O.C.  
 Wall Studs: 2x4 Studs @ 16" O.C.

### HURRICANE UPLIFT CONNECTORS

Truss Anchors: SEMCO HDPT2 @ Ea. Truss End (T, U.O.N.)  
 Wall Tension: Wall Sheathing Nailing is Adequate @ 4" O.C. Top & Bot.  
 Anchor Bolts: 1/2" A307 Bolts @ 48" O.C. - 1st Bt 6" from corner  
 Corner Hold-down Device: (1) HD5a @ each corer  
 Porch Column Base Connector: Simpson ABU44BU66 @ each column  
 Porch Column to Beam Connector: Simpson EFC44 @ each column

### FOOTINGS AND FOUNDATIONS

Footings: 20"x12" Cont. W/2"x5 Bars Cont. @ 1'-3" Traverses @ 24" O.C.  
 Stemwall: 8" C.M.U. w/1"x5 Vertical Dowel @ 48" O.

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2001 EDITION.	
BASIC WIND SPEED:	0 MPH
WIND IMPORTANCE FACTOR (I):	= 1.00
BUILDING CATEGORY:	CATEGORY II
WIND EXPOSURE:	B
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18
MUFRS PER TABLE 1606.2A (FBC 2001) DESIGN WIND PRESSURES:	W: - 23.1 PSF U: + 26.6 PSF E: - 32.3 PSF
COMPONENTS & CLADDING PER TABLE 1606.2B & 1606.2C (FBC 2001) DESIGN WIND PRESSURES:	CNGS: + 21.8 / - 29.1 PSF IVE: - 68.3 PSF ROF: + 19.3 / - 25.5 PSF

## TERMITE PROTECTION NOTES:

### SOIL CHEMICAL BARRIER METHOD:

- A PERMANENT SIGN WHICH IDENTIFIES THE TERMITETREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
- IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALLIGERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4
- TO PROVIDE FOR INSPECTION FOR TERMITE INFESTION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL FBC 1403.1.6
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1
- BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT ITAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE ANDDEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INIL TREATMENT. FBC 1816.1.3
- MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTAED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS FERE VAPOR RET- ARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4
- CONCRETE OVERPOUR AND MORTAR ALONG THEFOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMT. FBC 1816.1.5
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALL FBC 1816.1.6
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUSTBE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPE AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIERS APPLIED, SHALL BE RETREATED. FBC 1816.1.6
- ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONTRUCTION TREATMENT. FBC 1816.1.1
- A CERTIFICATE OF COMPLIANCE MUST BE ISSUED ) THE BUILDING DEPART- MENT BY A LICENSED PEST CONTROL COMPANY BEERE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMIT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN :CORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONS- UMER SERVICES". FBC 1816.1.1
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AD FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THISINCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRSH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDG. FBC 2303.1.4

## 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	1310*
PLATE TO STUD:	SIMPSON SP2	1065*
STUD TO SILL:	SIMPSON SP1	585*
PORCH BEAM TO POST:	SIMPSON PC44/EPC44	1700*
PORCH POST TO FND.:	SIMPSON ABU44	2200*
MISC. JOINTS	SIMPSON A34	315*/240*

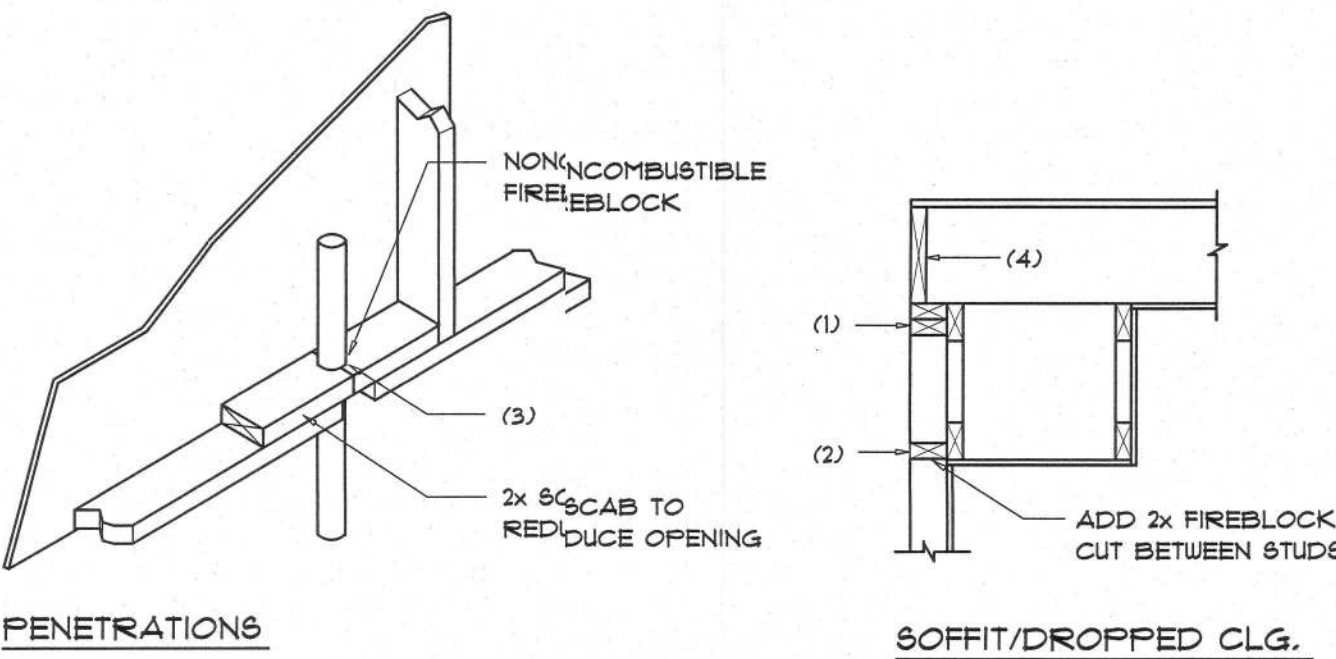
NOTE:  
 ALL ANCHORS SHALL BE SECURED W/1/2" NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT T STRENGTH, UNLESS NOTED OTHERWISE.

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 #35-08/818.15

NOTE:  
 "SIMPSON" PRODUCT APPROVALS:  
 MIAMI/DADE COUNTY REPORT #31-01907.05, #36-1126.11, #39-0623.04  
 SBCCI NER-443, NER-393



### PENETRATIONS

### SOFFIT/DROPPED CLG.

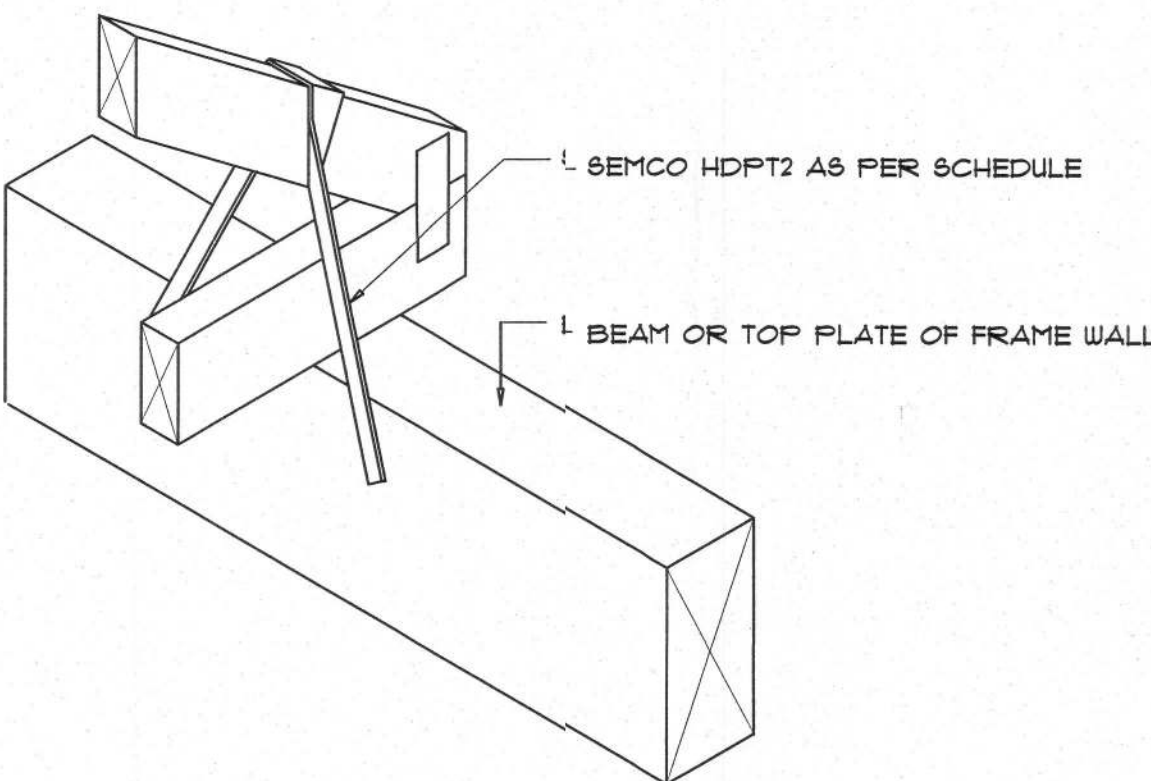
### FIREBLOCKING NOTES:

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

- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING, COVE CEILING, ETC.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYRO PANEL MULTIFLEX SEALANT"
- 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



## SEMCO HDPT2

SCALE: 1/2" = 1'-0" TRUSS TO WOOD BEAM

## 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 I, OR ASTM D 4869, TYPE I.

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 FA 101-85.

UNDERLAYMENT APPLICATION:  
 FOR ROOF SLOPES FROM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:

- STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
- 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 OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 1 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.

- FOR 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 1501.3.2.
- FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS 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.
- FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
  - BOTH TYPES 1 AND 2 ABOVE, COMBINED.
  - ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
  - SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

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 TAB 100, USING 4 NAILS/SHINGLE

REVISIONS
June 10, 2010

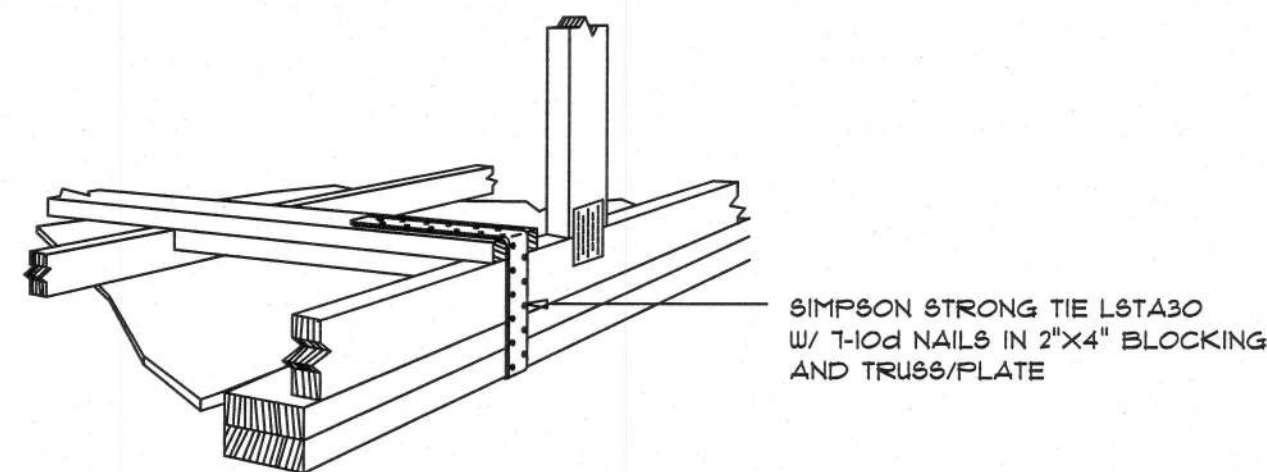
A CUSTOM HOME FOR:  
**TROY LAND**  
 LAKE CITY, FL 32024

**NICHOLAS PAUL GEISLER**  
 ARCHITECT  
 N.C.A.R.S. Certified  
 1758 NW Brown Rd.  
 Lake City, FL 32055  
 (813) 733-9021

SHEET NUMBER  
**S.3**  
 OF 4 SHEETS

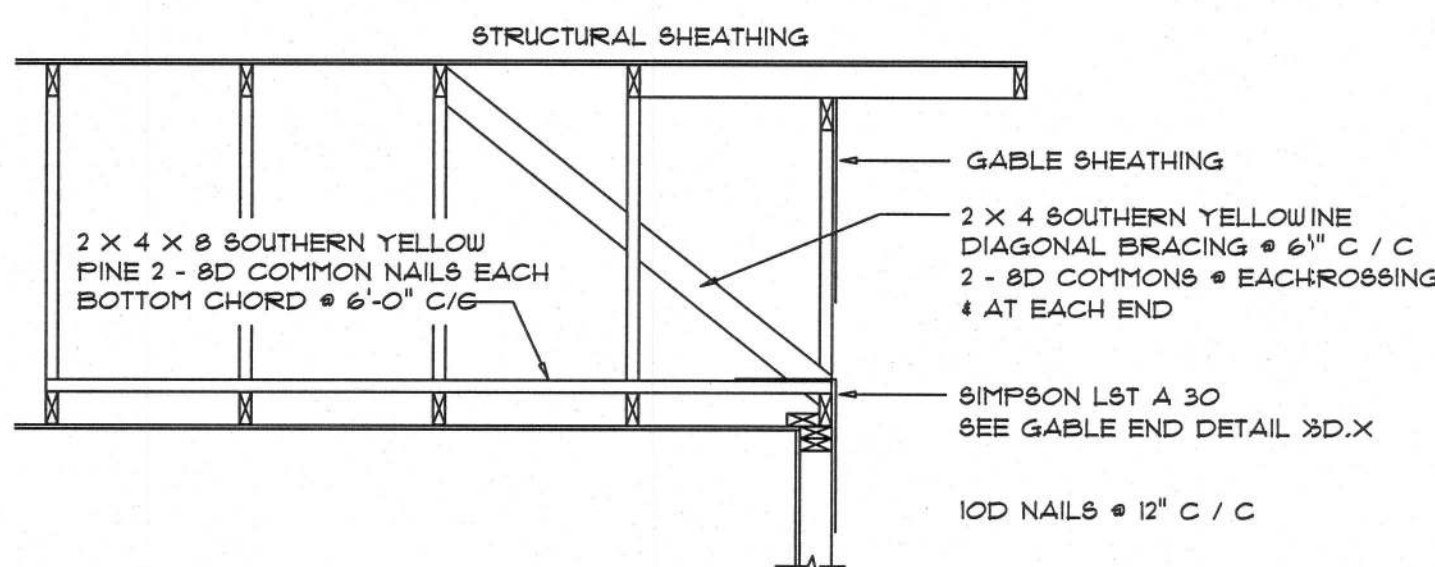
*Handwritten signature and date 02/07/2010*  
 ARO007005





**GABLE END GYPSUM DIAPHRAGM  
HOLDOWN CONNECTOR**

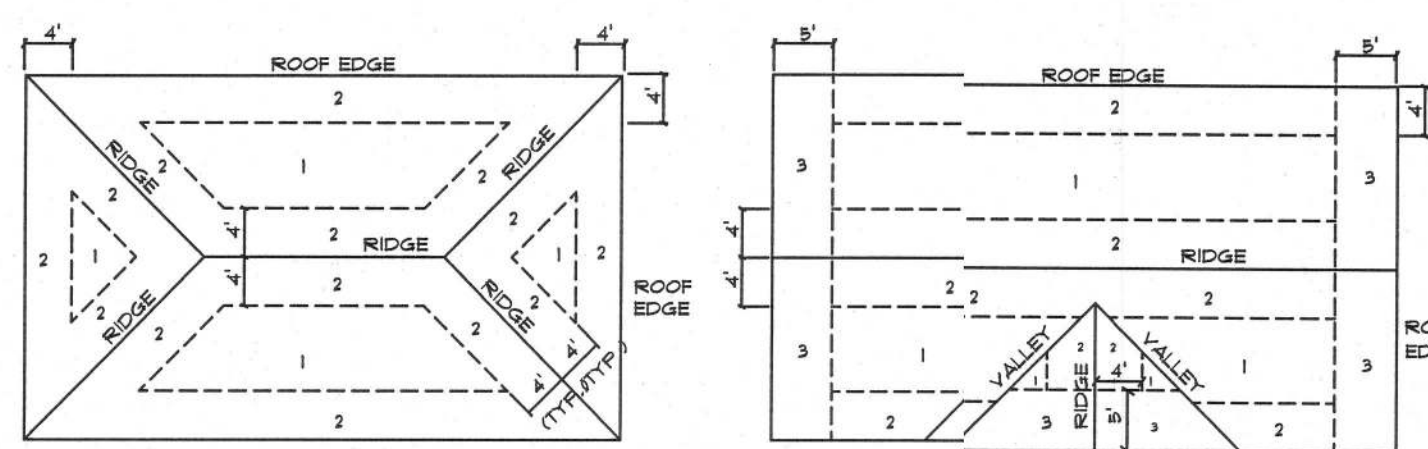
SCALE: NONE



**END WALL BRACING FOR  
CEILING DIAPHRAGM**

NTS (ALTERNATIVE TO BALLOON FRAMING)  
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

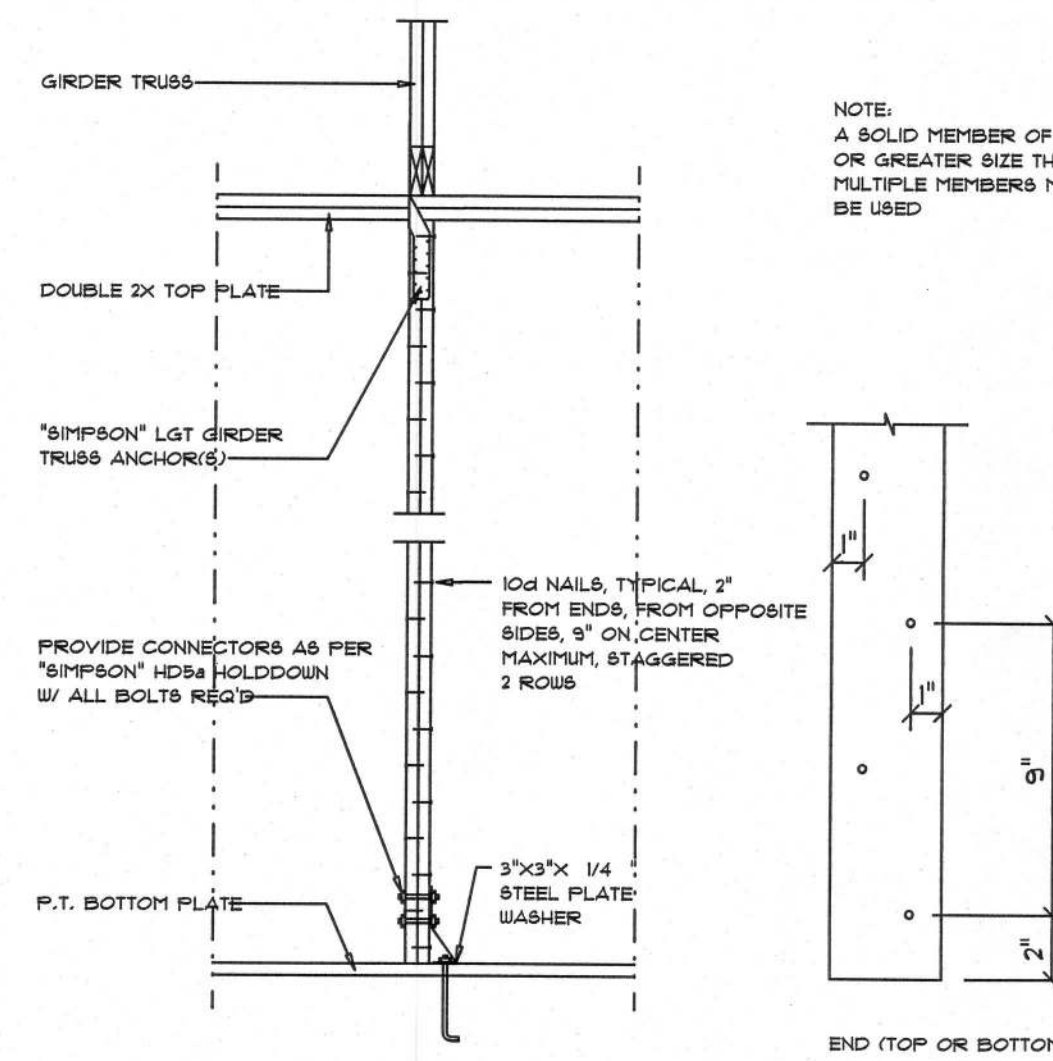
ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1		8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2	1/16" O.S.B. OR 15/32 CDX		6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



**Roof Nail Pattern DET.**

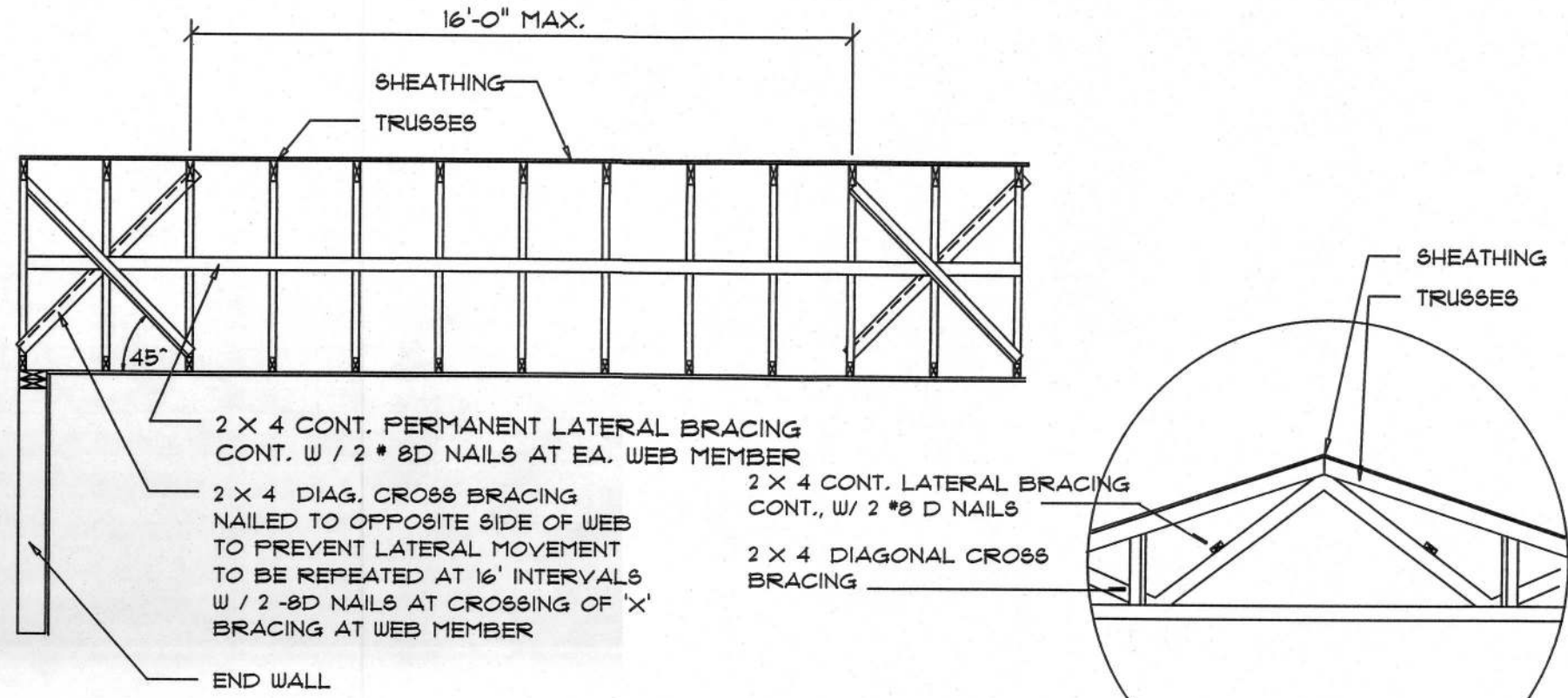
SCALE: NONE

HEADER SPANS FOR EXTERIOR BEARING WALLS					
HEADERS SUPPORTING:	HEADER SIZE	BUILDING WIDTH (FT.)			
		20'	28'	36'	
ROOF, CEILING	2-2x4	3'-6"	3'-2"	2'-10"	1
	2-2x6	5'-5"	4'-8"	4'-2"	1
	2-2x8	6'-10"	5'-11"	5'-4"	1
	2-2x10	8'-5"	7'-3"	6'-6"	2
	2-2x12	9'-9"	8'-5"	7'-6"	2
	3-2x8	8'-4"	7'-5"	6'-8"	1
	3-2x10	10'-6"	9'-1"	8'-2"	1
	3-2x12	12'-2"	10'-1"	9'-5"	2
	4-2x8	9'-2"	8'-4"	9'-2"	1
	4-2x10	11'-8"	10'-6"	9'-5"	1
	4-2x12	14'-1"	12'-2"	10'-11"	1



**Girder Truss Column DET.**

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

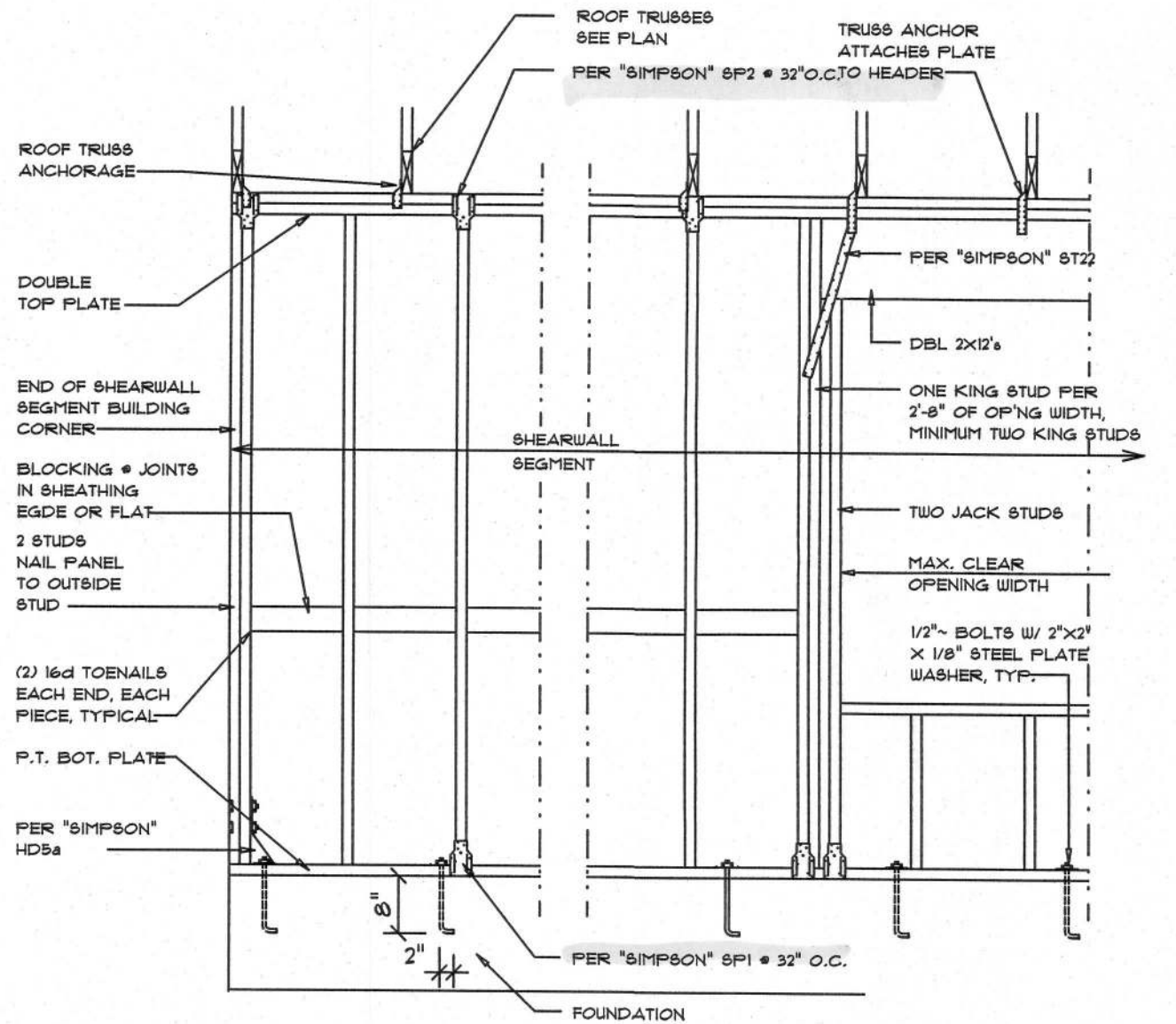


**TYP. PERMANENT TRUSS BRACING DIA.**

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

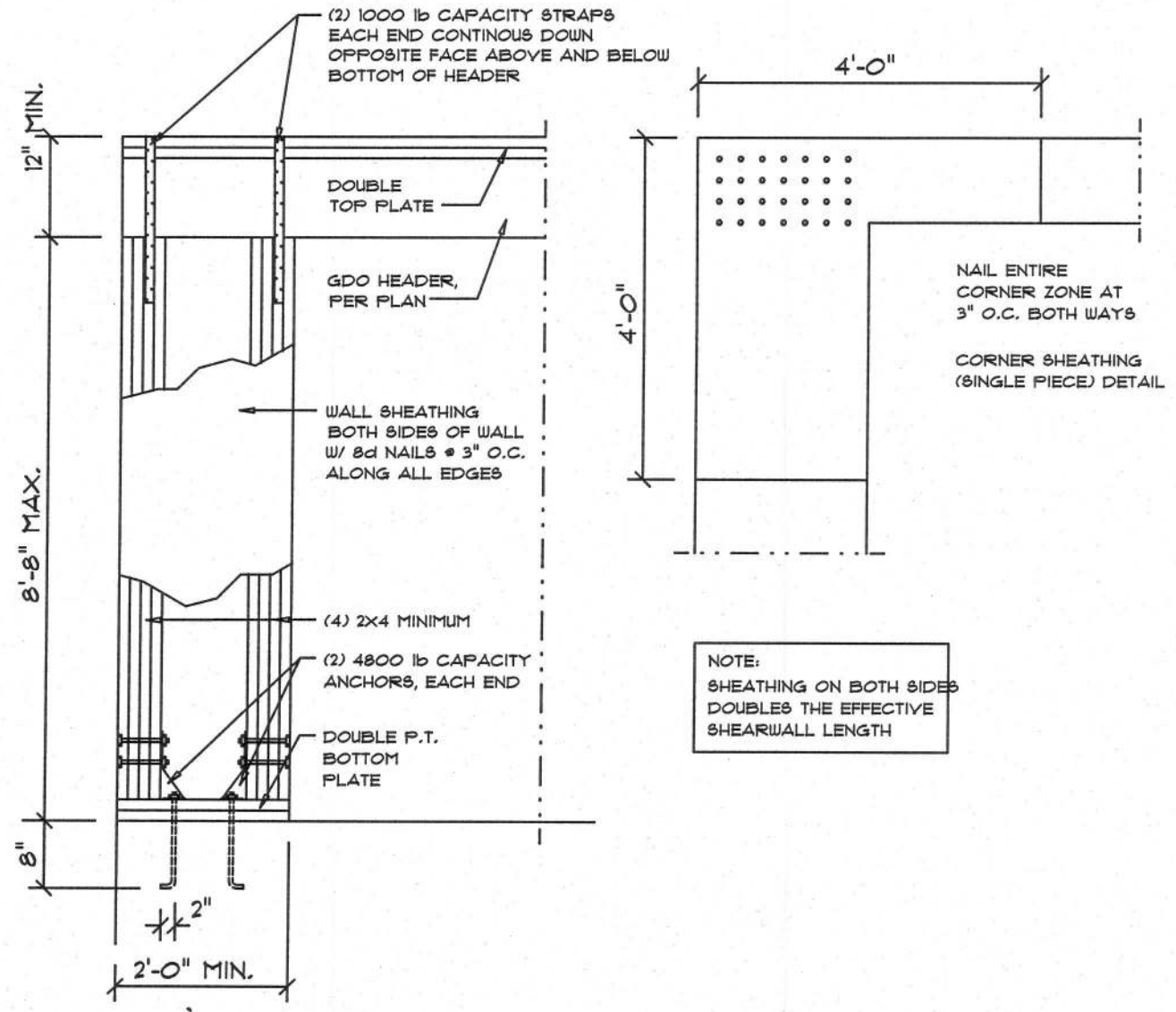
**Truss Bracing DETAILS**

SCALE: AS NOTED



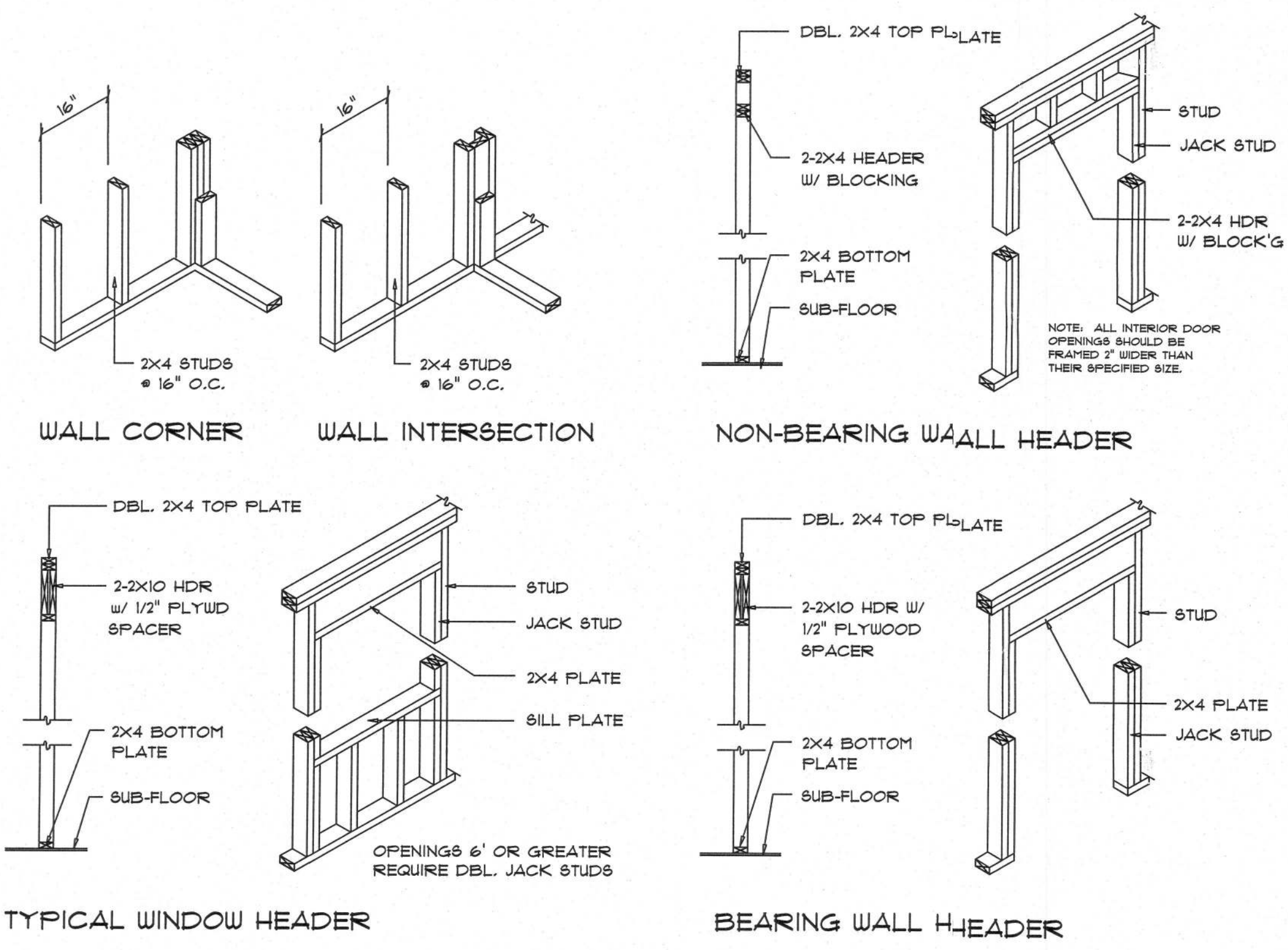
- SHEARWALL NOTES:**
- ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-91 SBCI 305.4.3.
  - THE WALL SHALL BE ENTIRELY SHEATHED WITH 1/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
  - ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
  - NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
  - 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	8" PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
6'-0" TO 8'-0"	(3) 2x4 OR (1) 2x6	2
8'-0" TO 12'-0"	(3) 2x4 OR (2) 2x6	3



**Garage End Wall DETAILS**

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



**Wall Framing/Header DETAILS**

SCALE: NONE

**Shear Wall DETAILS**

SCALE: NONE

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AR0001005