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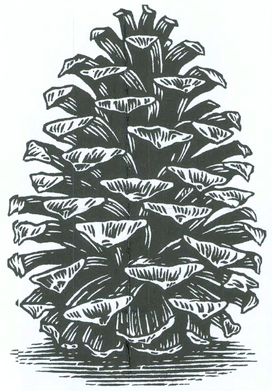


SOUTHLAND
LOG HOMES

Final Plans

This is your final set of plans for your file. Please review these plans immediately. Changes made to these drawings are subject to a redesign fee.

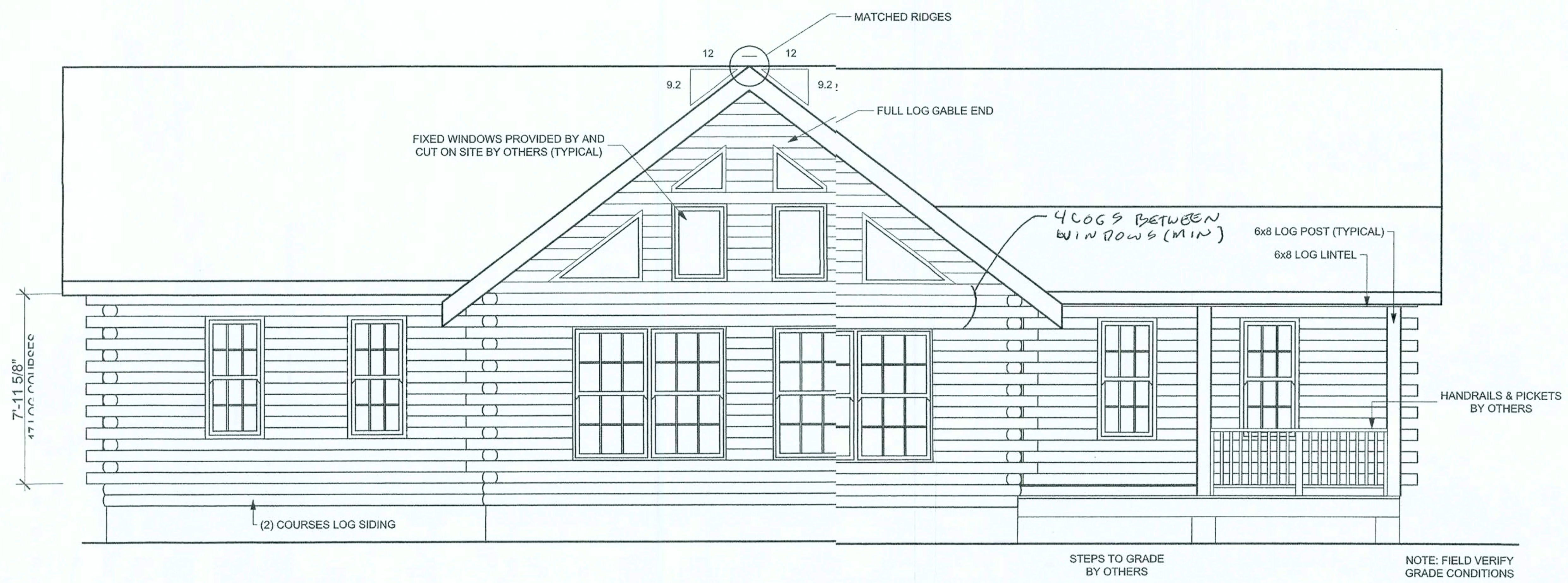
Contractor is responsible to verify all dimensions on your job site.

Some areas or local building departments may require sealed construction plans and/or energy sheets. Purchaser assumes the responsibility to determine if sealed plans are necessary and must notify Seller in writing at least thirty-five (35) days prior to the delivery date. Purchaser is responsible for all costs incurred by failure to notify Seller.

(Final Plans are Subject to Change by the engineer who seals the plans. If your plans require "sealing" DO NOT START CONSTRUCTION Until you receive your "sealed" plans from the engineer.)

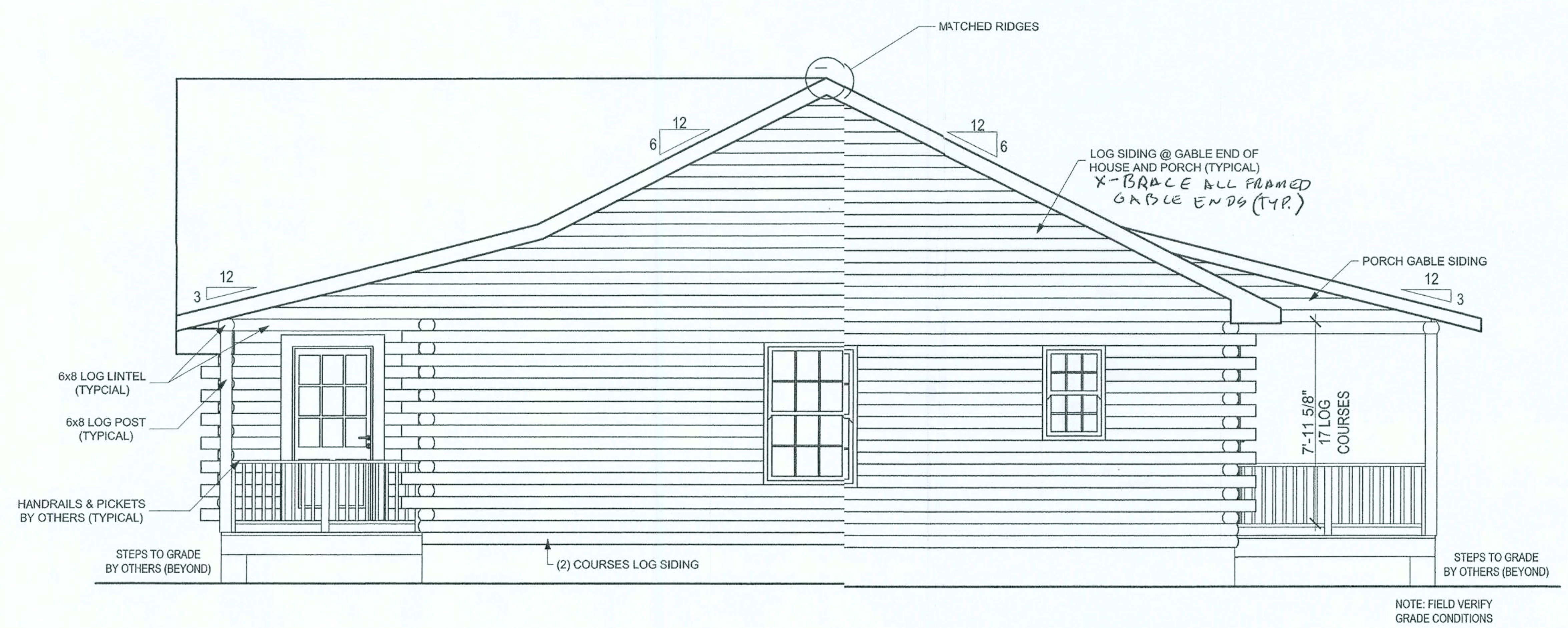
#0602-2

PO BOX 1668, HIGHWAY 176 @ 1-26
IRMO, SOUTH CAROLINA 29063-1668
(803) 781-5100 (LOCAL)
1-800-845-3555 9USA)



FRONT ELEVATION

1/4" = 1'-0"



RIGHT ELEVATION

1/4" = 1'-0"

DESIGN DATA

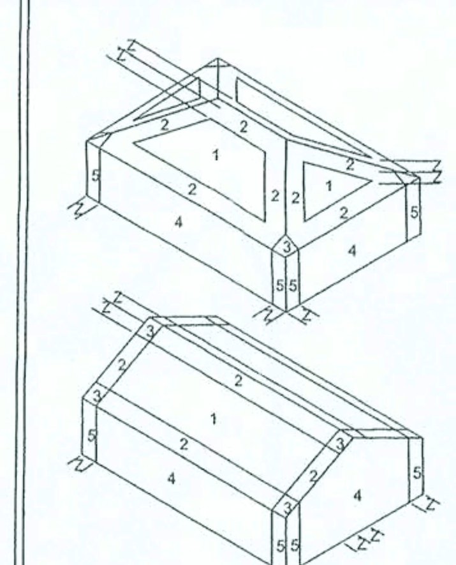
WIND LOADS PER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1

(ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT ON UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.)

BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE

BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION

1.) BASIC WIND SPEED = 110 MPH
2.) WIND EXPOSURE = B
3.) WIND IMPORTANCE FACTOR = 1.0
4.) BUILDING CATEGORY = II
5.) ROOF ANGLE = 10-45 DEGREES
6.) MEAN ROOF HEIGHT = <30 FT
7.) INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)
8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))



Zone	Effective Wind Area (ft2)			
	10		100	
1	19.9	-21.8	18.1	-18.1
2	19.9	-25.5	18.1	-21.8
2 O'hg		-40.6		-40.6
3	19.9	-25.5	18.1	-21.8
3 O'hg		-68.3		-42.4
4	21.8	-23.6	18.5	-20.4
5	21.8	-29.1	18.5	-22.6

Doors & Windows Worst Case (Zone 5, 10 ft2)	21.8	-29.1
8x7 Garage Door	19.5	-22.9
16x7 Garage Door	18.5	-21.0

DESIGN LOADS

FLOOR 40 PSF (ALL OTHER DWELLING ROOMS)
30 PSF (SLEEPING ROOMS)
30 PSF (ATTICS WITH STORAGE)
10 PSF (ATTICS WITHOUT STORAGE, <3:12)
ROOF 20 PSF (FLAT OR <4:12)
16 PSF (4:12 TO <12:12)
12 PSF (12:12 AND GREATER)
STAIRS 40 PSF (ONE & TWO FAMILY DWELLINGS)
SOIL BEARING CAPACITY 1000PSF
NOT IN FLOOD ZONE (BUILDER TO VERIFY)

GENERAL ELEVATION NOTES:

ALL EXTERIOR WOOD DOOR TRIM AND EXTERIOR NON-RADIUS WOOD WINDOW TRIM TO BE PROVIDED BY SOUTHLAND LOG HOMES. EXTERIOR TRIM FOR CLAD DOORS, CLAD WINDOWS, AND ANY RADIUS WINDOW TO BE PROVIDED BY OTHERS.

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

WARNING!

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:
27JAN06

MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

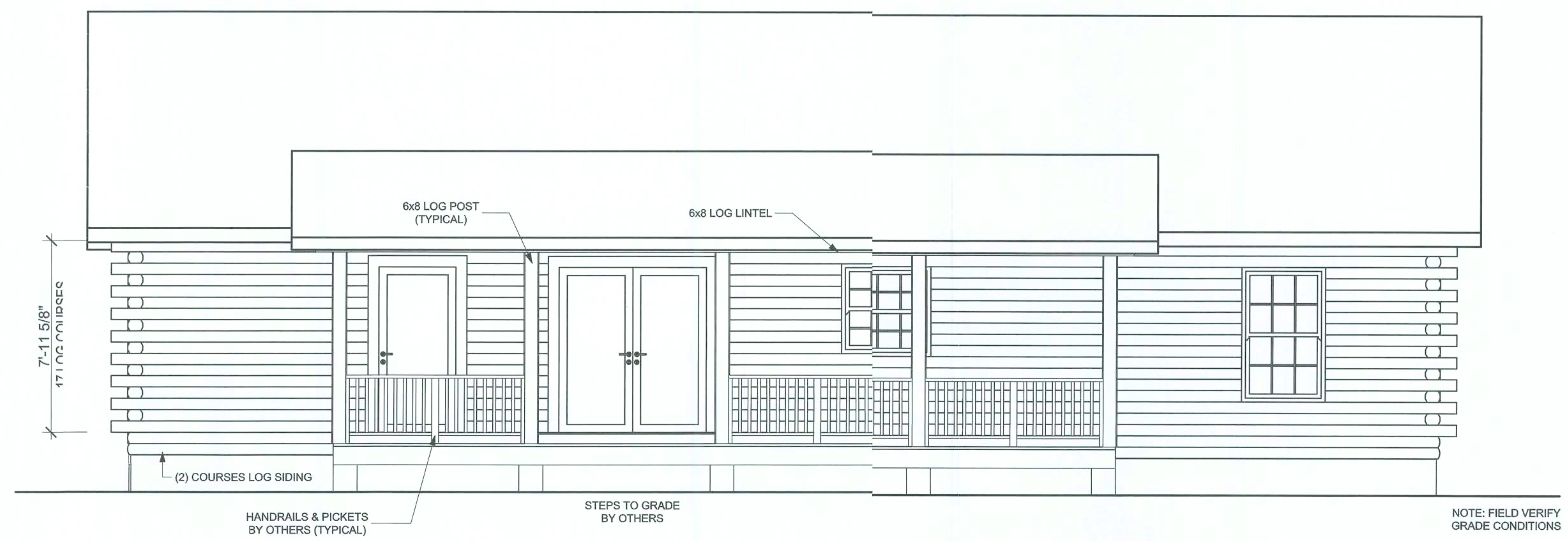
SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

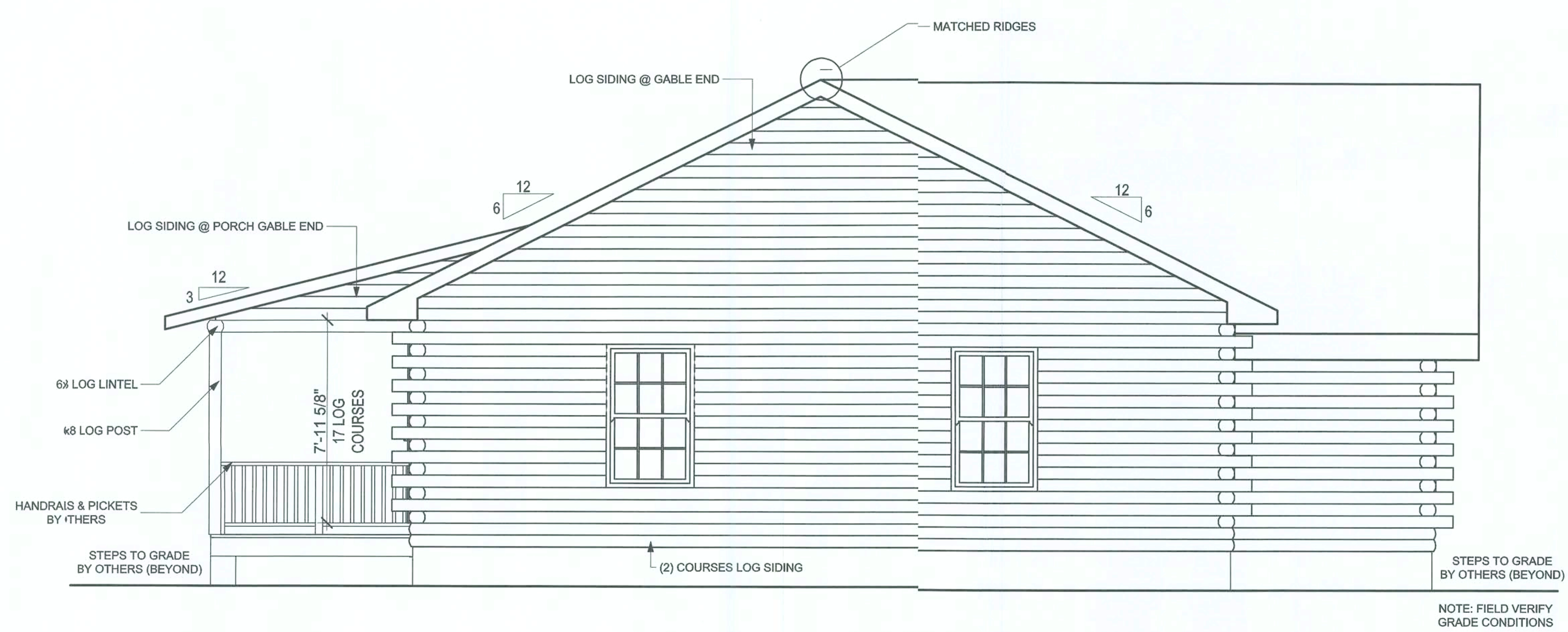
1.1
SHEET NUMBER

1/20/2006 11:47 AM ARCHICAD VERSION 8.1



REAR ELEVATION

1/4" = 1'-0"



LEFT ELEVATION

1/4" = 1'-0"

GENERAL ELEVATION NOTES:

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
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800-845-3555 USA
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MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06
0603673
PROJECT NUMBER
1.2
SHEET NUMBER

DOOR SCHEDULE

Created at 9:05 AM 1/16/2006

MARK	SIZE	ROUGH OPENING	TYPE	QTY	REMARKS	PROVIDED BY
1	3-0 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass 2-Panel 9 Lite Door-LI (High Wind)	Southland
2	3-0 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass Full View French Door-RI (High Wind)	Southland
3	6-0 x 6-8	6-3 1/4 x 6-10 1/2	EXT	1	Fiberglass Full View French Door-LO (Highwind)	Southland

WINDOW SCHEDULE

Created at 11:23 AM 1/17/2006

MARK	SIZE	ROUGH OPENING	TYPE	QTY	REMARKS	PROVIDED BY
A	2-0 x 3-2	2-2 x 3-5 1/2	D/H	1	Green Clad Single-Tempered (High Wind)	Southland
B	2-0 x 4-6	2-2 x 4-9 1/2	D/H	4	Green Clad Single (High Wind)	Southland
C	3-0 x 3-2	3-2 x 3-5 1/2	D/H	1	Green Clad Single (High Wind)	Southland
D	3-0 x 5-2	3-2 x 5-5 1/2	D/H	4	Green Clad Single (High Wind)	Southland
E	3-0 x 5-2	6-3 3/8 x 5-5 1/2	D/H	2	Green Clad Twin (High Wind)	Southland
F	Varies	Owner to Verify	Fixed	1	Green Clad Trapezoid Left Hand (High Wind)	Owner
G	Varies	Owner to Verify	Fixed	1	Green Clad Trapezoid Right Hand (High Wind)	Owner
H	Varies	Owner to Verify	Fixed	1	Green Clad Triangle Left Hand (High Wind)	Owner
I	Varies	Owner to Verify	Fixed	1	Green Clad Triangle Right Hand (High Wind)	Owner
J	19 1/2x29 5/8	2-0 3/4 x 2-10 7/8	FIXED	1	Green Clad Single (High Wind)	Owner
K	19 1/2x29 5/8	2-0 3/4 x 2-10 7/8	FIXED	1	Green Clad Single (High Wind)	Owner

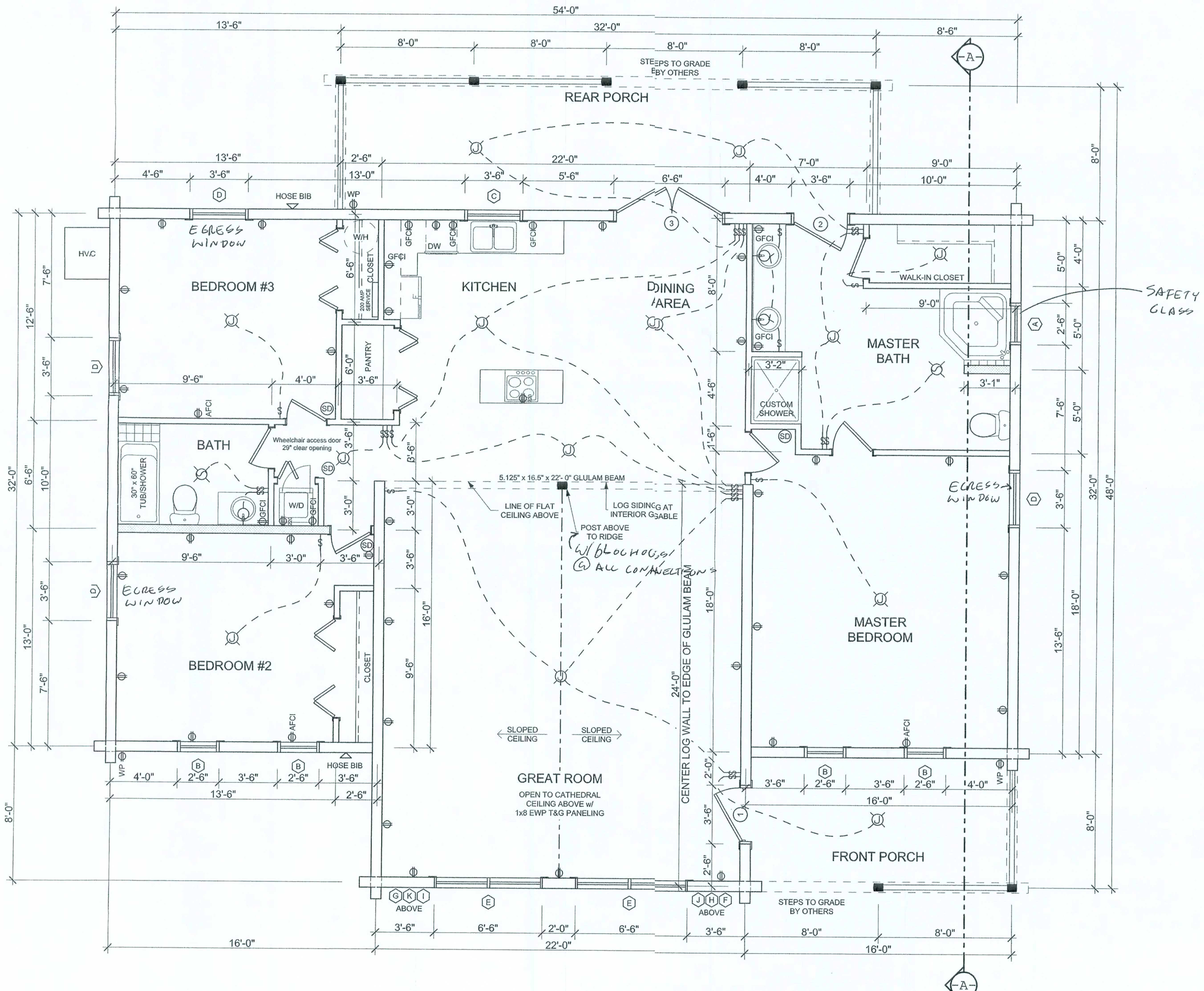
SQUARE FOOTAGE (ANSI Z765-2003)	
HEATED AREAS:	
FIRST FLOOR	1963 Sq. Ft.
TOTAL HEATED	1963 Sq. Ft.
UNHEATED AREAS:	
PORCH(ES)	380 Sq. Ft.
TOTAL UNHEATED	380 Sq. Ft.
TOTAL UNDER ROOF	2343 Sq. Ft.

EXTRA ITEMS PURCHASED WITH YOUR LOG HOME PACKAGE		
EXTRA 1x8 WHITE PINE T&G	1485	lnft
EXTRA LOG SIDING: 6in-YP SIDING	280	lnft

6x8 STOCKADE-SYP
SUNDRY ITEMS ARE INCLUDED IN YOUR LOG HOME PACKAGE

FLOOR PLAN KEY:

- INTERIOR WALL
- INTERIOR LOAD-BEARING WALL
- PLUMBING WALL
- STOCKADE / DOVETAIL LOG WALL (REFER TO CONTRACT)
- HANDRAILS & PICKETS (BY OTHERS)
- 6x8 LOG POSTS (REFER TO CONTRACT)
- 6x8 LOG LINTEL (REFER TO CONTRACT)
- TOILET (BY OTHERS)
- BIDET (BY OTHERS)
- CEILING FAN W/ LIGHT (BY OTHERS)
- JUNCTION BOX (BY OTHERS)
- LIGHT (BY OTHERS)
- VENT FAN W/ LIGHT (BY OTHERS)
- SD SMOKE DETECTOR (BY OTHERS)
- SWITCH (BY OTHERS)
- 220v OUTLET (BY OTHERS)
- 110v OUTLET (BY OTHERS)
- WP WATERPROOF OUTLET (BY OTHERS)
- GFCI GROUND FAULT CIRCUIT INTERRUPTER (BY OTHERS)
- AFCI ARC-FAULT CIRCUIT INTERRUPTER (BY OTHERS)



FIRST FLOOR PLAN

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES:

1.) UNLESS NOTED OTHERWISE, ALL INTERIOR STUD WALLS ARE NON-LOAD BEARING. FLOOR SYSTEM DESIGN BASED ON SELF-SUPPORTING ROOF. ROOF LOADS TO BE CARRIED ON LOG WALLS OR INTERIOR SUPPORT BEAMS.

2.) FLOOR LOADS ARE BASED ON A LIVE LOAD OF:
30 PSF, L/Λ = 360 IN SLEEPING AREAS
40 PSF, L/Λ = 360 IN LIVING AREAS
PER 2003 IRC ONE & TWO FAMILY CODE

3.) UNLESS OTHERWISE NOTED, ROOF LOADS ARE DESIGNED FOR 15 PSF DEAD LOAD. ALL OTHER ROOF LOADS TO BE DETERMINED BY LOCAL BUILDING CODES

4.) SMOKE DETECTORS SHALL RECEIVE PRIMARY POWER FROM BUILDING ELECTRICAL SYSTEM AND SHALL BE EQUIPPED WITH BATTERY BACKUP. DETECTORS SHALL EMIT LOW BATTERY SIGNAL.

NOTE:

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IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

WARNING!

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

Mike Mucha 22JAN06

MIKE & NORMA MUCHA

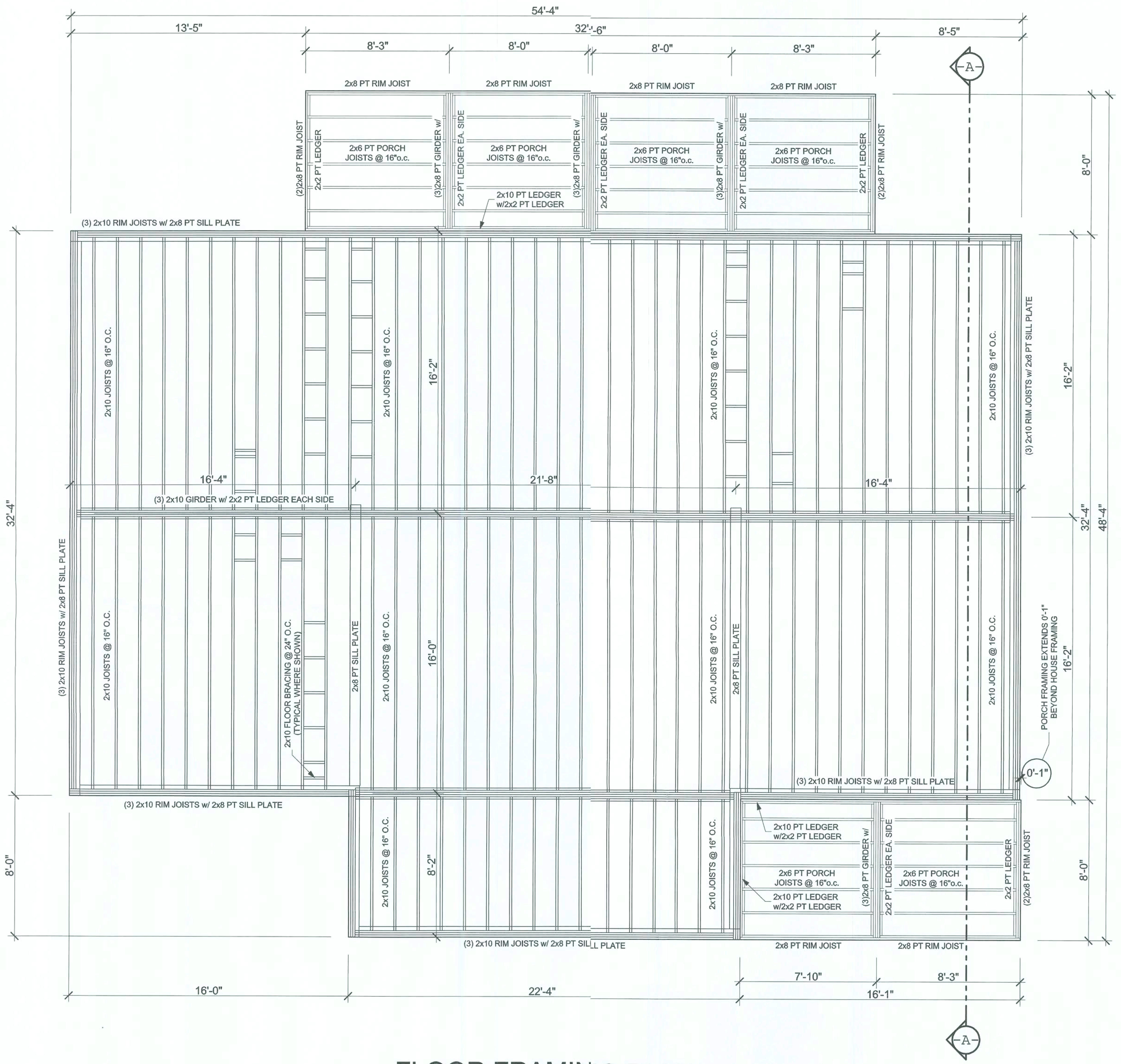
DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

2.1
SHEET NUMBER



FLOOR FRAMING PLAN

1/4" = 1'-0"

GENERAL FLOOR FRAMING NOTES:

1.) PROVIDE SOLID BLOCKING BENEATH ALL LOG POSTS.

2.) PROVIDE BLOCKING AT MIDSPAN FOR ALL LOG JOISTS 10'-0" LONG AND LONGER.

3.) PROVIDE DOUBLE JOISTS OR PERPENDICULAR BLOCKING @ 24" O.C. BENEATH ALL STUD WALLS RUNNING PARALLEL TO FLOOR JOISTS.

4.) CRAWL SPACE HEIGHT TO BE A MINIMUM OF 18" FROM BOTTOM OF FLOOR JOIST TO TOP OF FINISH GRADE OR PER LOCAL CODE - WHICHEVER IS GREATER.

5.) DROP PORCH AND DECK PIER HEIGHT SO THAT TOP OF DECKING IS 5 5/8" BELOW MAIN HOUSE SUBFLOOR.

6.) FLOOR SYSTEM DESIGN BASED ON SELF-SUPPORTING ROOF. ALL ROOF LOADS TO BE CARRIED ON LOG WALLS, UNLESS NOTED OTHERWISE.

7.) ALL FASTENERS THAT WILL BE IN CONTACT WITH TREATED LUMBER MUST BE NO LESS THAN A HOT DIPPED GALVANIZED COATING.

NOTE:

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IMPORTANT NOTES READ CAREFULLY
FINAL PLANS

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LOG STYLE & PROFILE
6x6 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:
27JAN06

MIKE & NORMA MUCHA
DELIVERY COUNTY: **COLUMBIA**
DELIVERY STATE: **FL**
CUSTOMER ID NUMBER: **1+35H+752**
SITE ADDRESS:
182 W. VOYAGER CT.
LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
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MODEL: **CUSTOM**
DESIGNED BY: **MRL**
CHECKED BY: **AJJ**
PLAN DATE: **01/17/06**
DELIVERY DATE: **03/28/06**

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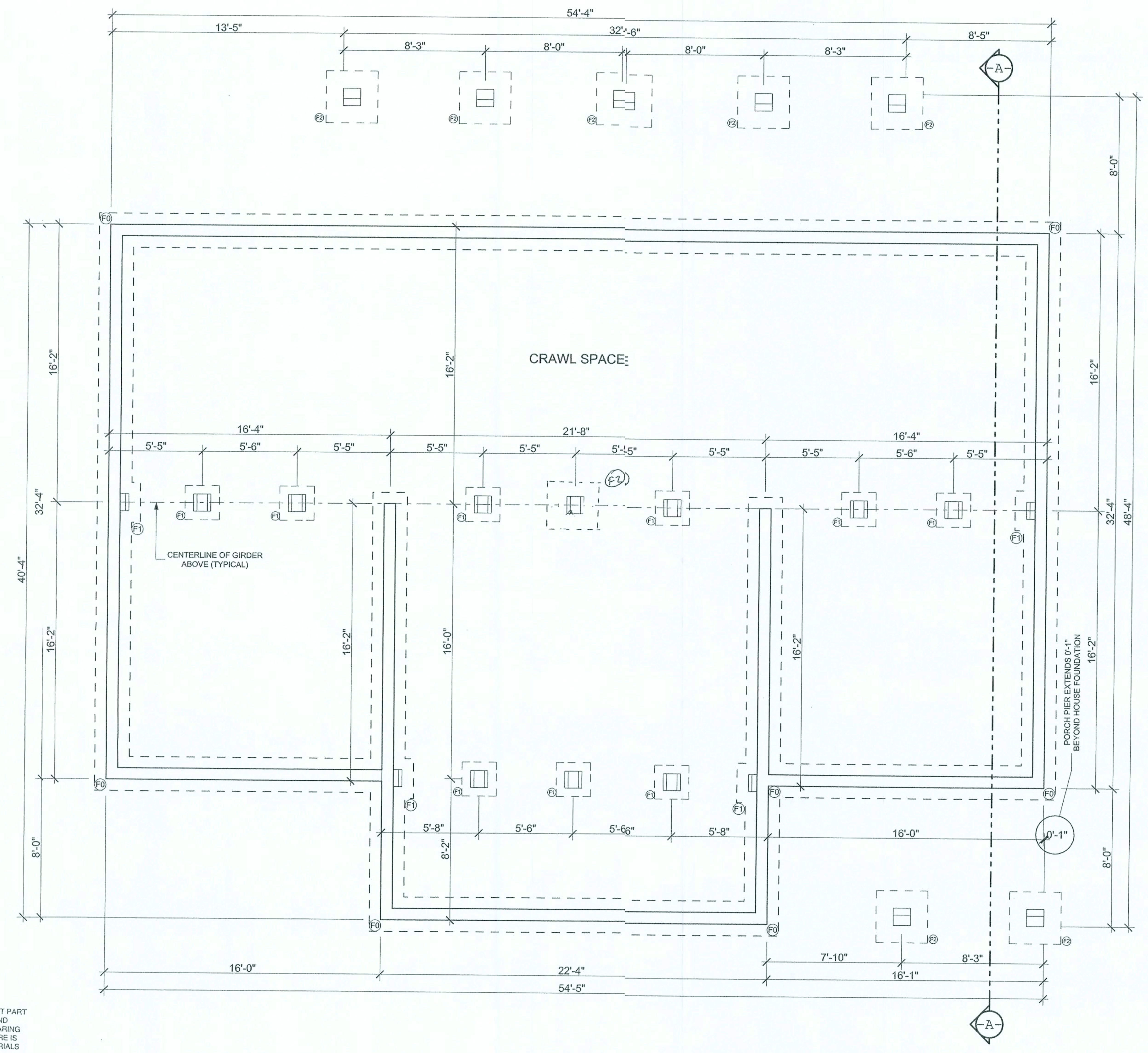
PROJECT NUMBER

3.1
SHEET NUMBER



FOUNDATION PLAN

1/4" = 1'-0"

SITE PREPARATION: SITE ANALYSIS AND PREPARATION INFORMATION IS NOT PART OF THIS PLAN AND IS RESPONSIBILITY OF THE OWNER. ALL FOUNDATIONS AND FOOTINGS ARE DESIGNED FOR STABLE SOIL CONDITIONS WITH 1000 PSF BEARING CAPACITY. SITE INSPECTION OF SOIL CONDITIONS SHALL DETERMINE IF THERE IS ANY EVIDENCE OF UNSUITABLE BEARING MATERIALS. QUESTIONABLE MATERIALS PRESENT SHOULD CALL FOR SOILS TESTS AND ANALYSIS BY GEOTECHNICAL ENGINEER TO ASSURE THAT EXPANDING CLAYS AND OTHER PROBLEMATIC SOILS CONDITIONS DO NOT EXIST OR TO ALLOW MITIGATION SHOULD THEY EXIST. ALL FILL UNDER STRUCTURAL ELEMENTS SHALL BE CLEAN SAND/SOIL FILL, FREE FROM DEBRIS AND ORGANIC MATERIALS COMPACTED IN LIFTS OF NOT MORE THAN 6 INCHES, LOOSE MEASURE. IT IS THE OWNER'S / BUILDER'S RESPONSIBILITY TO VERIFY EXISTING SOIL AND CLEAN FILL ARE COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER THE MODIFIED PROCTOR TEST AND PROVIDE 2000 PSF MINIMUM BEARING CAPACITY OR REQUEST FOUNDATION DESIGN BASED ON ACTUAL SITE CONDITIONS.

FOUNDATION: ASSUMED SAFE BEARING CAPACITY OF 1000 PSF SHALL BE CONFIRMED IN THE FIELD BY A REGISTERED GEOTECHNICAL ENGINEER OR SHALL BE APPROVED BY THE OWNER. FOOTINGS AND SLABS ARE TO BEAR ON FIRM UNDISTURBED EARTH OR CLEAN SAND/SOIL FILL, FREE FROM DEBRIS AND ORGANIC MATERIALS COMPACTED IN LIFTS OF NOT MORE THAN 6 INCHES, LOOSE MEASURE. WHERE UNACCEPTABLE MATERIAL OCCURS, EXCAVATE AND REPLACE WITH ENGINEERED FILL. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS.

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE F'c = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

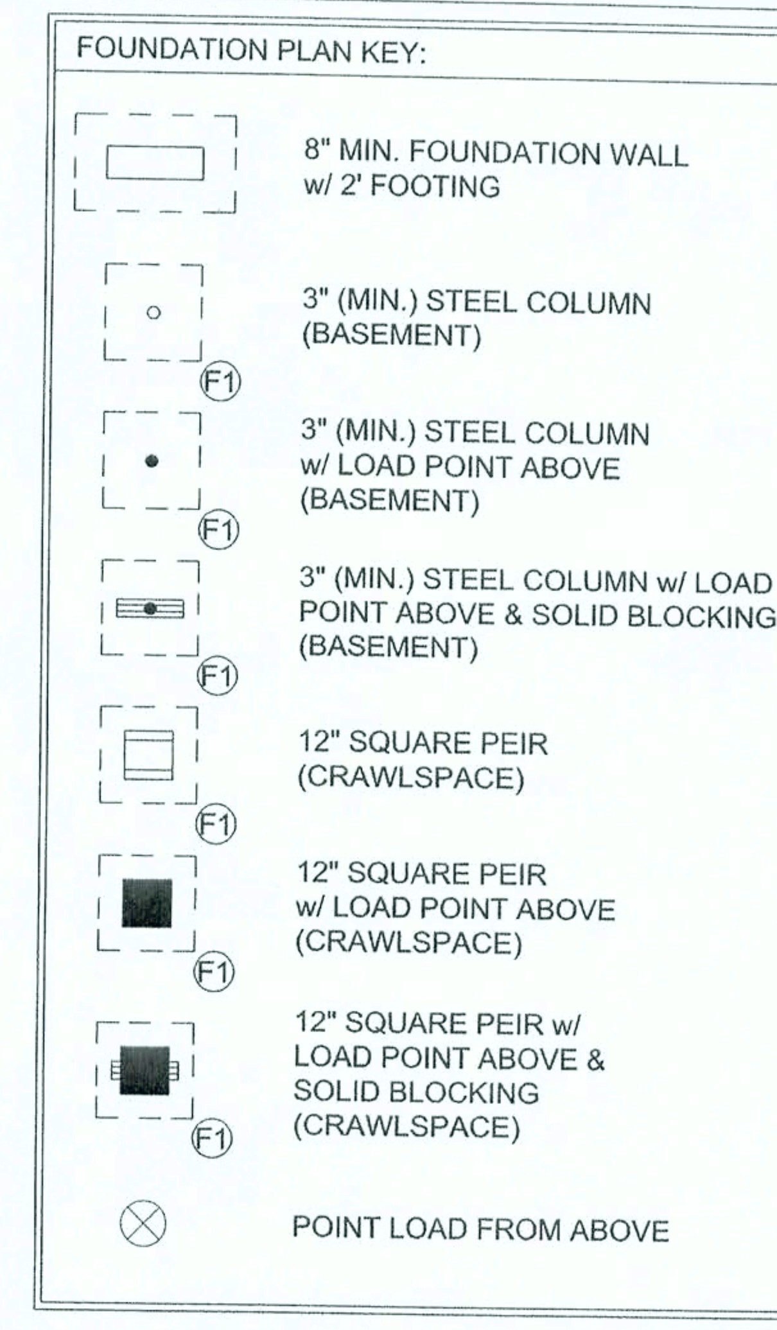
FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C 1116 WHEN REQUESTED BY THE BUILDING OFFICIAL.

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAPS SPLICES 40 * DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-95 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 23 INCHES.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

CONCRETE BLOCK: ASTM C-90 WITH MEDIUM SURFACE FINISH, F'm = 1500 PSI.

MORTAR: TYPE M OR N FOR ALL MASONRY UNITS.



GENERAL CRAWLSPACE NOTES:

1.) SOIL BEARING PRESSURE IS ASSUMED TO BE A MINIMUM OF 1000 PSF. IF SOIL CONDITIONS ARE FOUND TO BE LESS THAN THE ASSUMED, CONTACT A LOCAL STRUCTURAL ENGINEER FOR A RE-EVALUATION OF FOUNDATION PLAN.

2.) 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

3.) DROP PORCH AND DECK PIER HEIGHT SO THAT TOP OF DECKING IS 5 5/8" BELOW MAIN HOUSE SUBFLOOR.

4.) FIREPLACE DIMENSIONS AND SPECIFICATIONS TO BE VERIFIED WITH OWNER BEFORE CONSTRUCTION.

5.) 12" x 12" FOUNDATION PIERS WITH 24" x 24" CONCRETE FOOTINGS ARE SHOWN. REINFORCE FOOTING WITH (3) #5 REBARS EACH WAY. 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

6.) FOR REBAR PLACEMENT IN EXTERIOR FOUNDATION WALL FOOTING SEE "FOUNDATION/ BASEMENT" IN THE CONSTRUCTION DETAIL SHEETS.

7.) ALTHOUGH NO FOUNDATION VENTS ARE SHOWN, CONTRACTOR IS RESPONSIBLE FOR LOCATING AND INSTALLING VENTS. THE MINIMUM NET AREA OF VENT OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF CRAWLSPACE. ONE SUCH OPENING SHALL BE WITHIN 3 FT. OF THE CORNER OF THE BUILDING. FOR EXCEPTIONS SEE SBC.

8.) CRAWL SPACE HEIGHT TO BE A MINIMUM OF 18" FROM BOTTOM OF FLOOR JOIST TO TOP OF FINISH GRADE OR PER LOCAL CODE - WHICHEVER IS GREATER.

9.) 16" x 16" FULLY GROUTED MASONARY BLOCK COLUMN REQ'D @ EA. FOUNDATION END OF THE MULTIPLE 2X10 & GLULAM GIRDERS. REINFORCE EACH CELL w/ (1) #5 REBAR MIN. BOLT WOOD SEAT ATOP COLUMN FOR GIRDER TO BEAR UPON.

FOOTING SCHEDULE

MARK	MARK	REINFORCING
F0	2'-0" x 12" x CONT.	3 #5 BARS CONTINUOUS
F1	2'-0" x 2'-0" x 12"	3 #5 BARS EACH WAY
F2	3'-0" x 3'-0" x 18"	5 #5 BARS EACH WAY
F3	2'-0" x 3'-0" x 18"	#5 BARS @ 6" O.C.
F4	3'-0" x 5'-0" x 18"	#5 BARS @ 6" O.C.
F5	3'-0" x 8'-0" x 18"	#5 BARS @ 6" O.C.
F6	4'-0"x4'-0"x24"	7 #5 Bars Each Way
F7	2'-6" x 2'-6" x 15"	3 #5 BARS EACH WAY
F8	3'-6" x 3'-6" x 24"	6 #5 BARS EACH WAY

NOTE:

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

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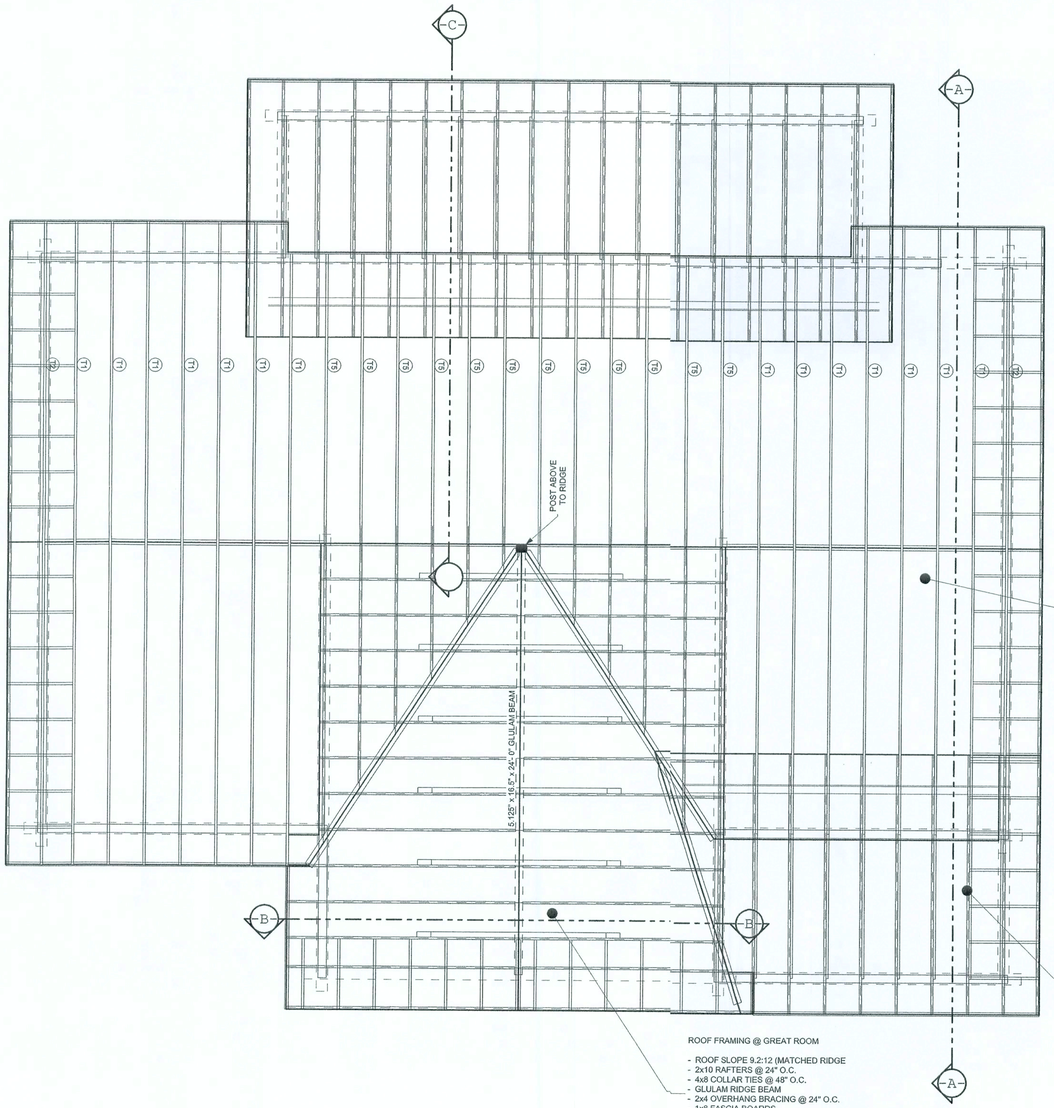
3.2
SHEET NUMBER



ROOF FRAMING @ MAIN ROOF

- ROOF SLOPE 6:12
- STANDARD BOTTOM CHORD EXTENDED TRUSS SYTEM @ 24" O.C.
- STANDARD BOTTOM CHORD EXTENDED GABLE END TRUSS @ GABLE ENDS
- STANDARD BOTTOM CHORD EXTENDED MONO TRUSSES @ 24" O.C. WHERE SHOWN
- 2x6 TRUSS PLATES
- 2x4 OVERHANG BRACING @ 24" O.C.
- 2x4 TRUSS BRACING
- 1x8 FASCIA BOARDS
- 2x10 / 2x8 CONN. ROOF RAFTERS @ 24" O.C.
- 2x10 CONN. ROOF RIDGE BOARDS
- 2x6 VALLEY PLATES
- 5/8" C.D.X. ROOF SHEATHING
- 30# ROOFING FELT
- 2x6 SUB FASCIA AND FLY RAFTERS

ROOF FRAMING @ FRONT & REAR PORCH

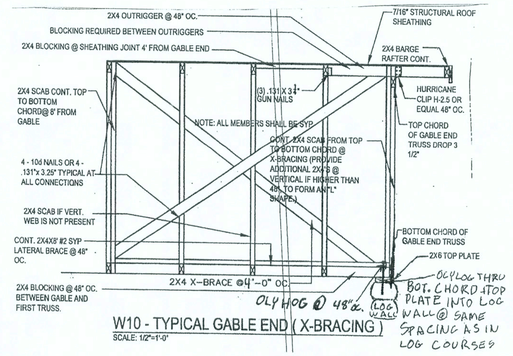
- ROOF SLOPE 3:12
- 2x6 RAFTERS @ 24" O.C.
- 2x6 CEILING JOISTS @ 24" O.C.
- 2x4 OVERHANG BRACING @ 24" O.C.
- 2x6 RAFTER / ROTATED RAFTER PLATES
- 2x6 VALLEY PLATE
- 1x8 FASCIA BOARDS
- 5/8" C.D.X. ROOF SHEATHING
- 30# ROOFING FELT
- 2x6 SUB FASCIA AND FLY RAFTERS

ROOF FRAMING @ GREAT ROOM

- ROOF SLOPE 9.2:12 (MATCHED RIDGE
- 2x10 RAFTERS @ 24" O.C.
- 4x8 COLLAR TIES @ 48" O.C.
- GLULAM RIDGE BEAM
- 2x4 OVERHANG BRACING @ 24" O.C.
- 1x8 FASCIA BOARDS
- 5/8" C.D.X. ROOF SHEATHING
- 30# ROOFING FELT
- 2x6 SUB FASCIA AND FLY RAFTERS
- 1x8 T&G #2 EWP PANELING

ROOF FRAMING PLAN

1/4" = 1'-0"



W10 - TYPICAL GABLE END (X-BRACING)

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

TRUSS LAYOUT KEY:

- T1 COMMON ROOF TRUSS
- T2 GABLE ROOF TRUSS
- T3 SCISSOR ROOF TRUSS
- T4 MONO-SCISSOR ROOF TRUSS
- T5 MONO-ROOF TRUSS
- T6 ATTIC STORAGE ROOF TRUSS
- T7 ATTIC ROOM ROOF TRUSS
- T8 VAULTED ROOF TRUSS
- T9 CUSTOM-SCISSOR/FLAT ROOF TRUSS
- T10 HIP ROOF TRUSS

BUILDER IS TO VERIFY THAT TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. SELECT UPLIFT CONNECTIONS AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS BASED ON TRUSS ENGINEERING REACTIONS. FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS.

TRUSS ENGINEERING WAS NOT AVAILABLE FOR REVIEW WHEN THIS WAS SEALED.

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

1/20/2006 11:48 AM ARCHICAD VERSION 8.1

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LOG STYLE & PROFILE
6x8 STOCKADE

YP
R/R

ROUND / ROUND

REVISIONS:

MIKE & NORMA MIICHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
800-845-3555 USA
803-781-5128 FAX
750 BROUGHTON ROAD
P.O. BOX 1568
RIMO, SC 29063-1568

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

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CONNECTOR TABLE

ALL CONNECTORS ARE SIMPSON, UNO.
USE FASTENERS SPECIFIED IN THIS TABLE, UNO.

UPLIFT (LB.)	TRUSS CONNECTOR	TO PLATE	TO RAFTER
455	H3	4-8d	4-8d
1450	HTS20	10-10d or 12-10dx1.5	10-10d or 12-10dx1.5
1600	H16	10-10dX1.5	2-10dx1.5
4200	MGT	5/8" THD. ROD	22-10d
UPLIFT (LB.)	**STRAP CONNECTOR**	**TO ONE MEMBER**	**TO OTHER MEMBER**
885	SP4	6-10dx1.5	N/A
1005	CS20	9-8d or 7-10d	9-8d or 7-10d
1295	LSTA21	8-10d	8-10d
1360	SPH4	12-10dx1.5	N/A
1650	CS16	14-8d or 11-10d	14-8d or 11-10d
UPLIFT (LB.)	**COLUMN ANCHOR**	**TO COLUMN**	**TO FOUNDATION**
1350	LTT19	8-16d sinkers	5/8"x 16" AB
~~2310~~	~~LTTI31~~	~~18-10dx1.5~~	~~5/8"x 16" AB~~
2775	HD2A	2-5/8" bolts	5/8"x 16" AB
4175	HTT16	18-16d	5/8"x 16" AB
2300	ABU66	12-16d	5/8"x 16" AB

MANUFACTURER AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS. ALL CONNECTIONS EXPOSED DIRECTLY TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. LISTED LOADS ARE FOR SYP, 0.55 S.G., AND HAVE BEEN INCREASED FOR WIND DURATION, UNO, AND MUST BE ADJUSTED FOR OTHER SPECIES OR DURATION. STRAP CONNECTOR CAPACITY MAY BE REDUCED PROPORTIONALLY TO NUMBER OF FASTENERS.

STRUCTURAL CONNECTORS: MANUFACTURER AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS. ALL CONNECTIONS EXPOSED DIRECTLY TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH SIZE AND MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: STEEL WASHER SIZES AS FOLLOWS: 1/2" BOLTS - 2" x 2" x 9/64"; 5/8" BOLTS - 3" x 3" x 9/64"; 3/4" BOLTS - 3" x 3" x 9/64"; 7/8" BOLTS - 3" x 3" x 5/16"; UNO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC PRODUCT APPROVAL AS HAVING EQUAL STRUCTURAL VALUES.

LOG WALLS: ALL LOG WALLS ARE MILLED EASTERN WHITE PINE LOGS WITH FLAT STACKING SURFACES. EACH COURSE IS ATTACHED TO THE COURSE BELOW WITH OLYHOG SCREW FASTENERS. FASTENER SPACING IS BASED ON REQUIRED PULLOUT STRENGTH FOR WIND UPLIFT AND REQUIRED SHEAR STRENGTH FOR LATERAL WIND LOADS.

OLYHOG FASTENERS: OLYHOG FASTENERS ARE SELF DRILLING, HIGH STRENGTH, Ft = 111ksi, STEEL WOOD SCREWS WITH 0.23" SHANK DIAMETER. ALLOWABLE PULLOUT STRENGTH IN SOUTHERN YELLOW PINE= 1473 LB = (307LB/ IN. * 1.6 * 3") IS BASED ON NDS1997, TABLE 9.2A 5/16" LAG SCREW, 3" THREAD, SYP, .55SG. ALLOWABLE SHEAR IS PER ROB PICKETT, NAHB, WOOD COUNCIL, BASED ON NDS1997 WORST CASE OF FOUR SHEAR MODES ALLOWABLE SHEAR IN SOUTHERN YELLOW PINE= 436 LB = (273 LB * 1.6). VALUES ARE INCREASED 1.6 FOR WIND DURATION.

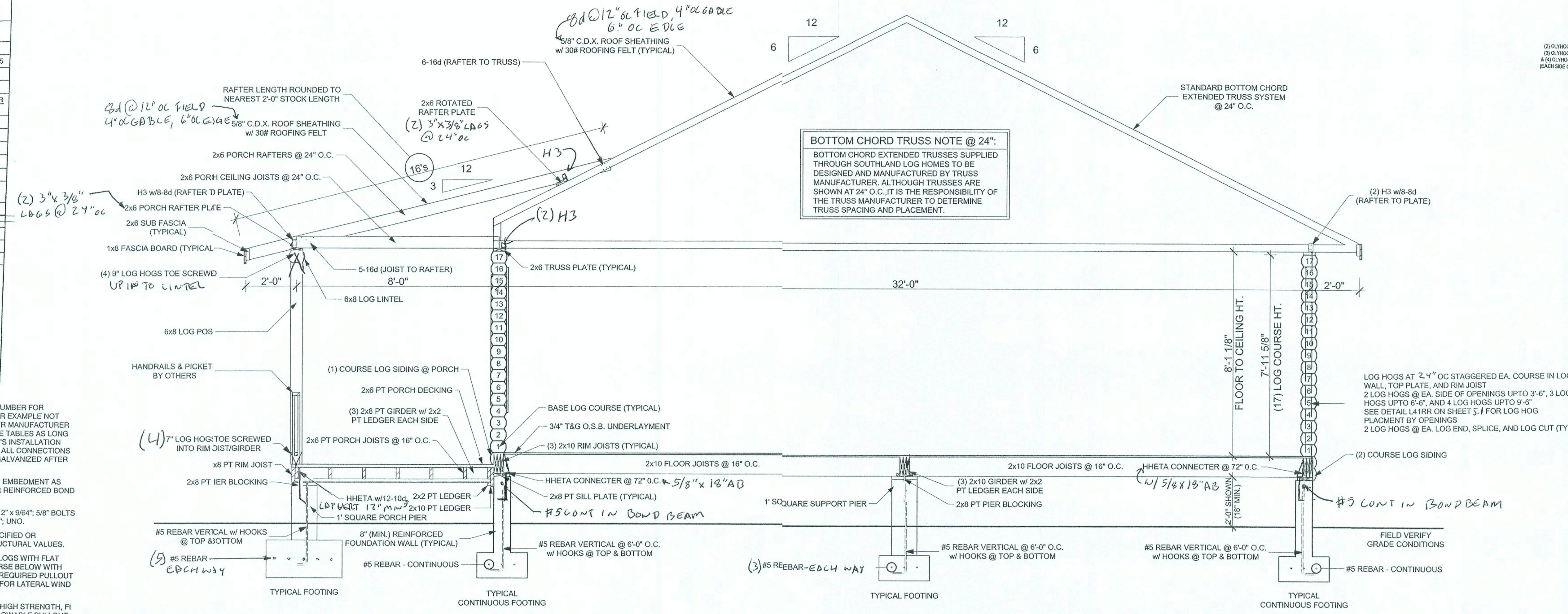
INTERIOR STUDS WALLS: ALL INTERIOR STUD WALLS ARE NON-LOAD BEARING; UNO. ROOF LOADS TO BE CARRIED ON LOG WALLS OR ROOF BEAMS WITH INTERIOR SUPPORT COLUMNS; UNO. BEARING WALL STUDS TO BE SPF#2; UNO. NON-LOAD BEARING WALL STUDS MAY BE SPF, STUD GRADE. ALL PLATES NOT PROTECTED FROM MOSTURE TO BE SYP#2 PT.

EXTERIOR STUDS WALLS: ALL EXTERIOR STUD WALLS ARE LOAD BEARING SHEAR WALLS WITH SPF#2 STUDS, SYP#2 PT BOTTOM PLATE, SPF#2 DOUBLE TOP PLATE WITH 10-16d NAILS PER LAP SPLICE; SP4, 6-10d "U"STRAP TOP AND BOTTOM AT 48"OC; 7/16" OSB SHEATHING, WITH PANEL EDGES FULLY BLOCKED, FASTENED WITH 8d COMMON NAILS, SPACING 6"OC PANEL EDGES, 12"0C INTERMEDIATE FRAMING MEMBERS; UNO.

GLULAM BEAMS: GLULAM BEAM, GLB, 24F-V3SP, Fb = 2.4ksi, E = 1800ksi; UNO.

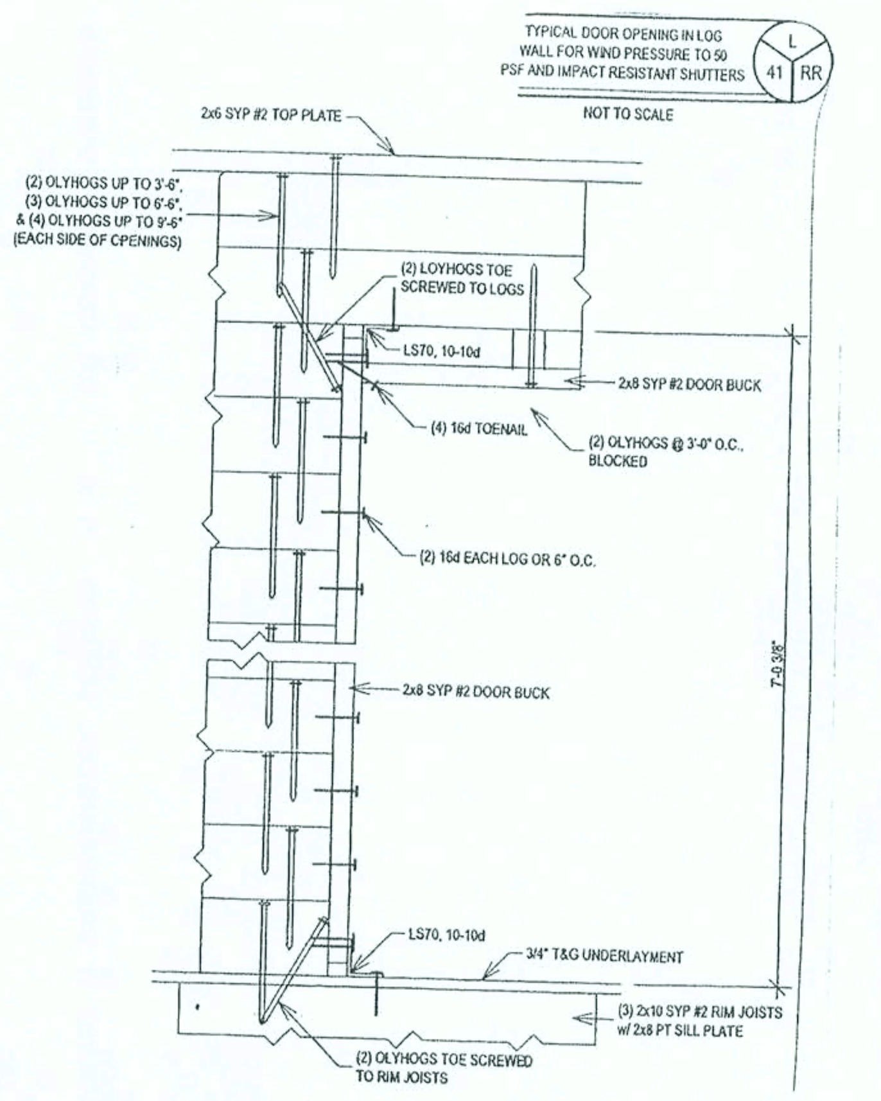
ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED OVER A MINIMUM OF 3 FRAMING MEMBERS WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS, SPACING 6"OC PANEL EDGES, 12"0C INTERMEDIATE MEMBERS, 4"OC GABLE ENDS AND DIAPHRAGM BOUNDARY; UNO.

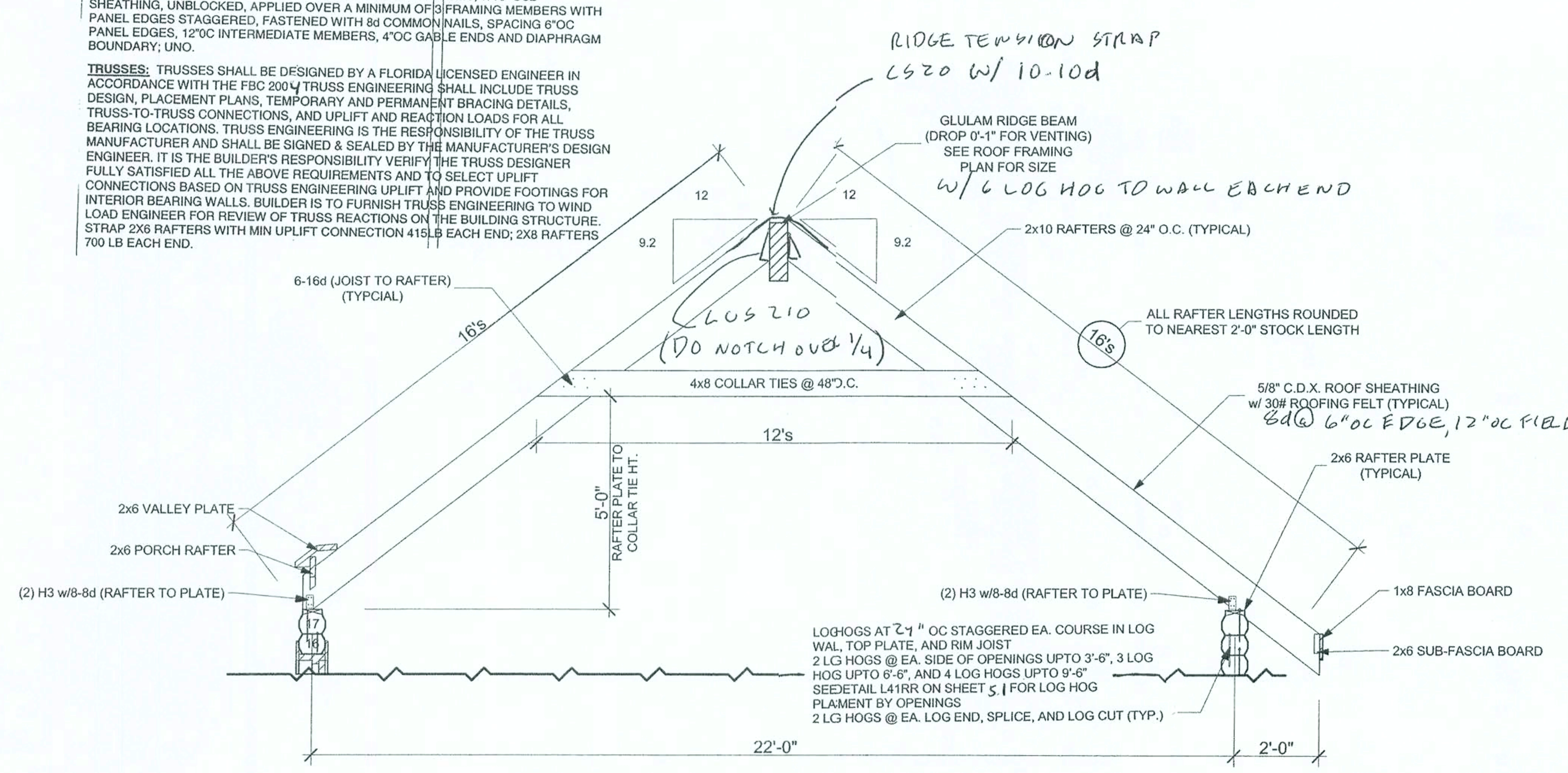
TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBC 2004 TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.



TRANSVERSE SECTION -A-

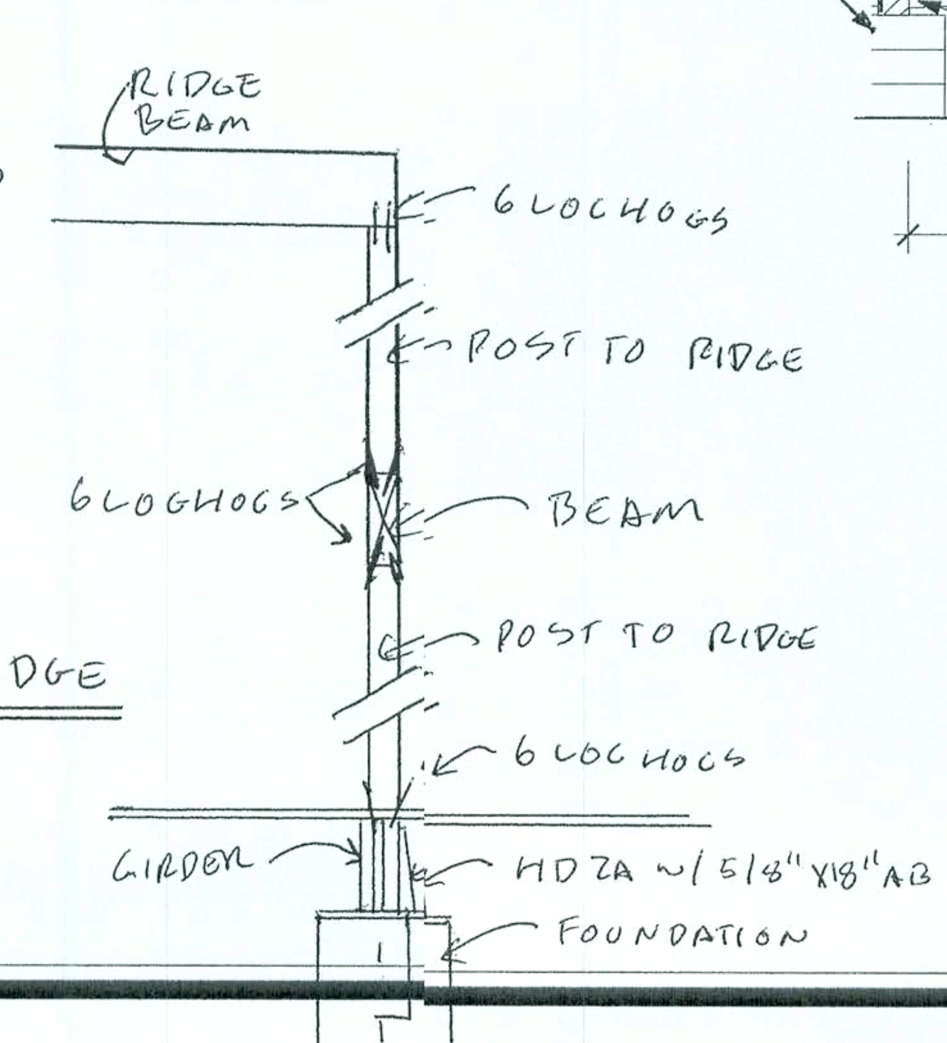
SCALE : 3/8" = 1'-0"

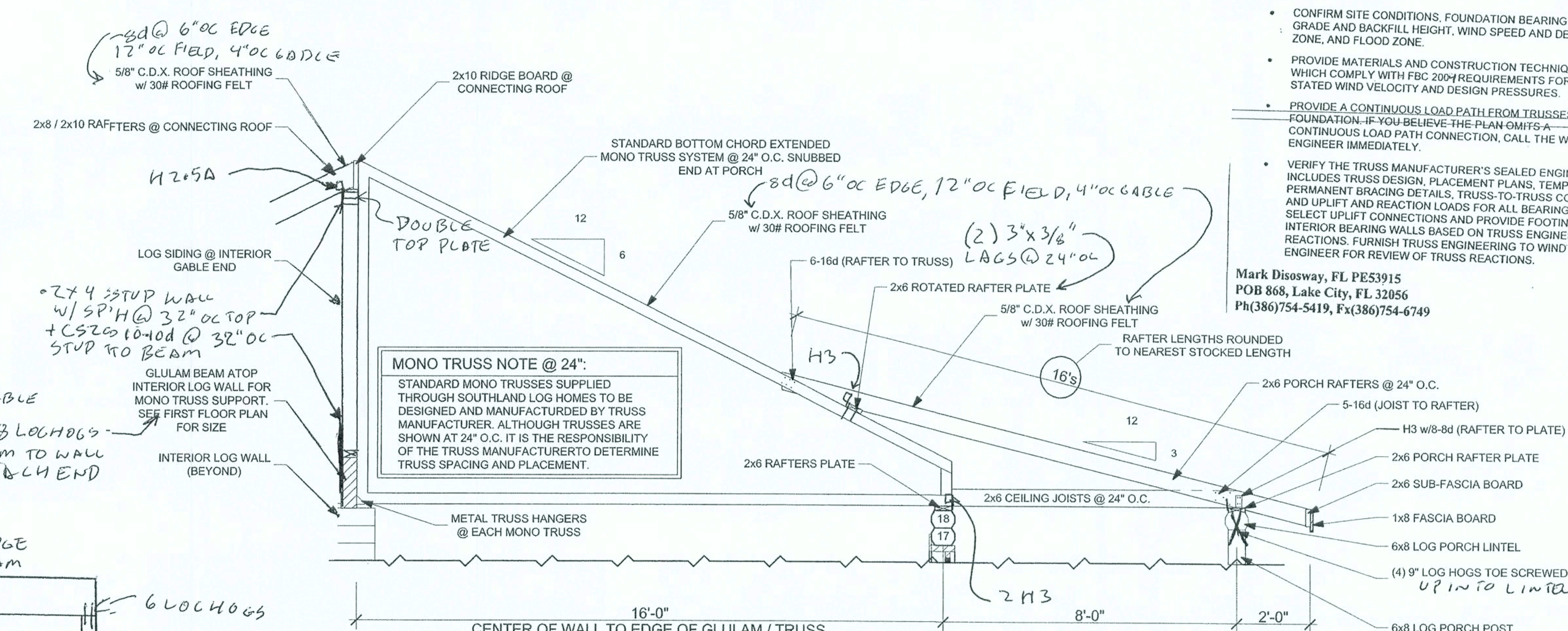




TRANSVERSE SECTION -B-

SCALE : 3/8" = 1'-0"





TRANSVERSE SECTION -C-

SCALE: 3/8"=1'-0"

WIND LOAD ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN, AND THE STRUCTURAL PORTIONS OF THE PLAN RELATING TO WIND LOADS COMPLY WITH FLORIDA BUILDING CODE 2004, SECTION R301.2.1 BEST OF MY KNOWLEDGE.

BUILDER'S RESPONSIBILITY:

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.

- CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.
- PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBC 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.
- PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMITS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.
- VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. SELECT UPLIFT CONNECTIONS AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS BASED ON TRUSS ENGINEERING REACTIONS. FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS.

Mark Disosway, FL PE53915
POB 868, Lake City, FL 32056
Ph(386)754-5419, Fx(386)754-6749

NOTE:

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REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

5.1
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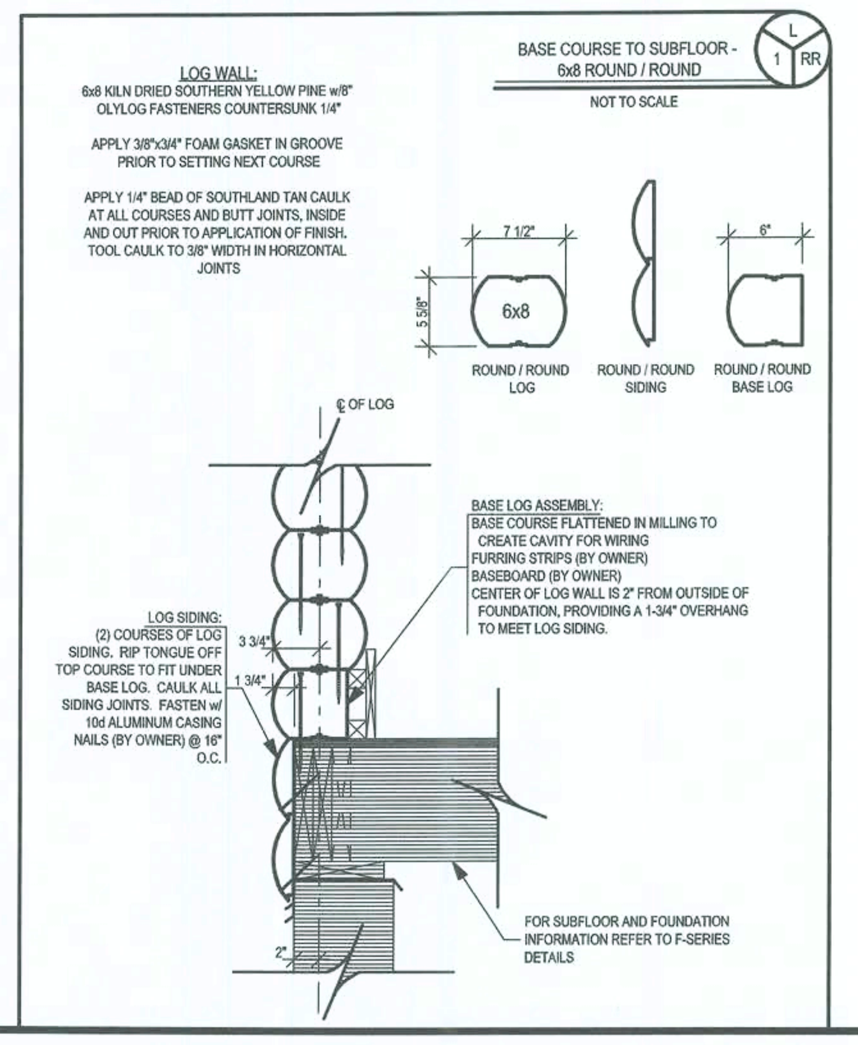
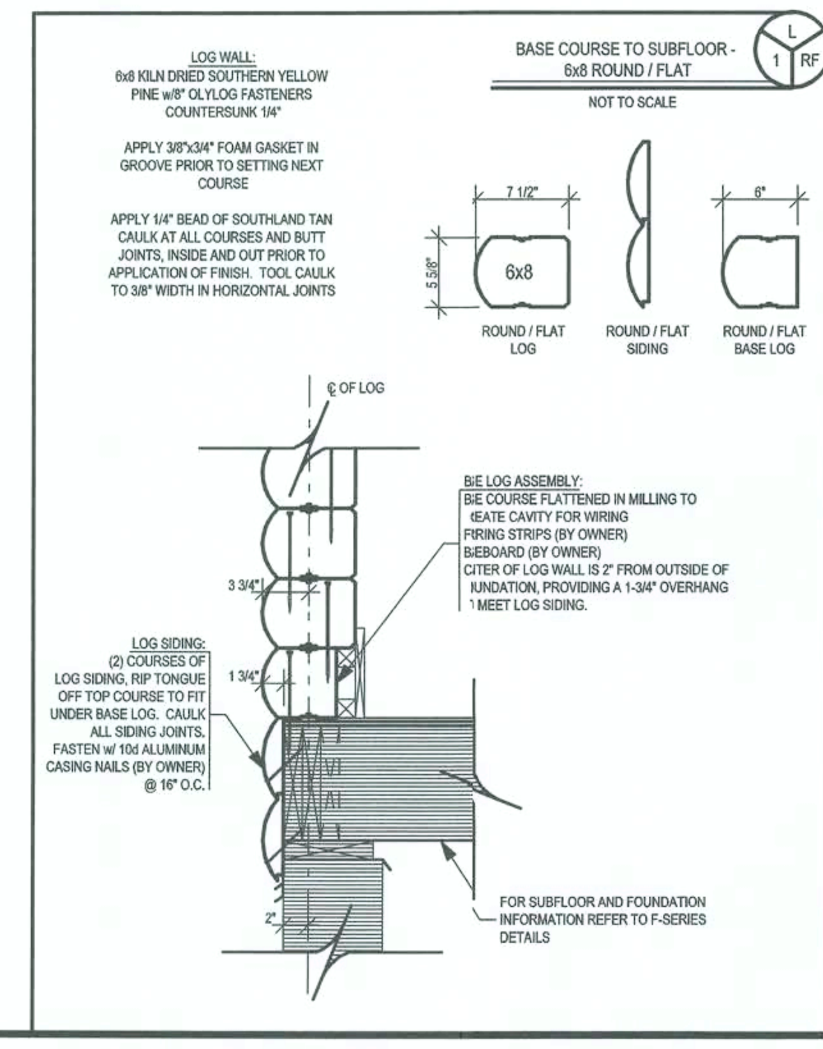
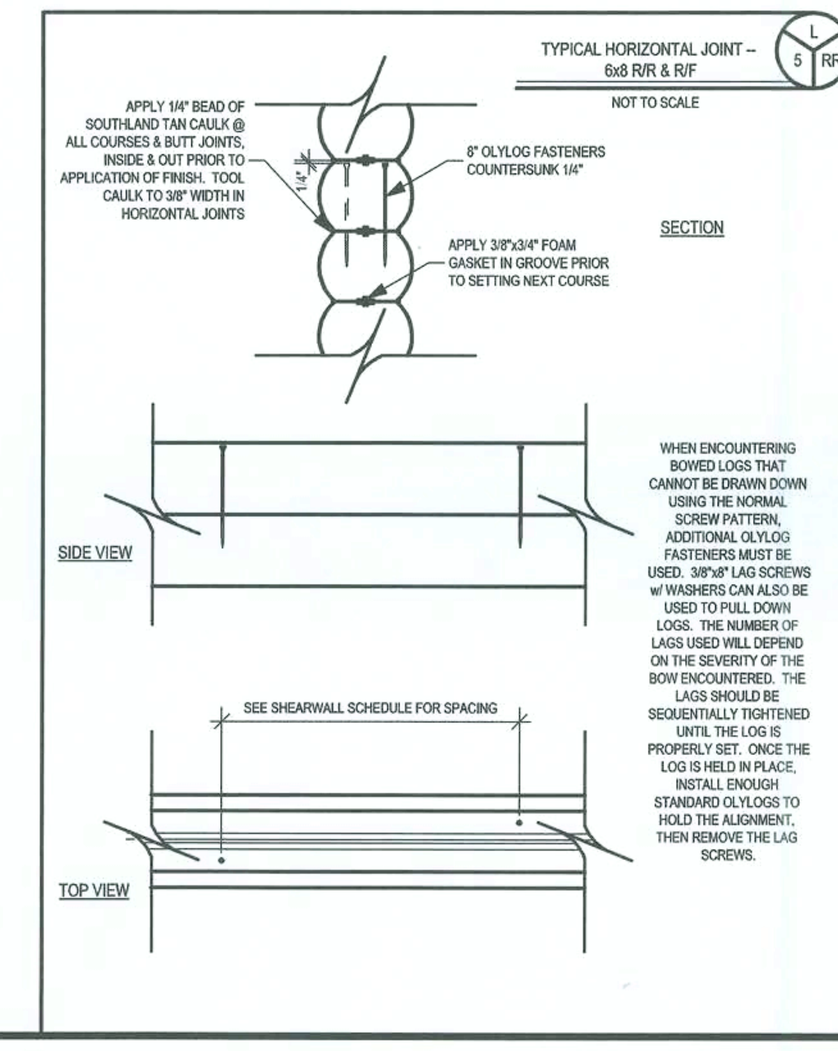
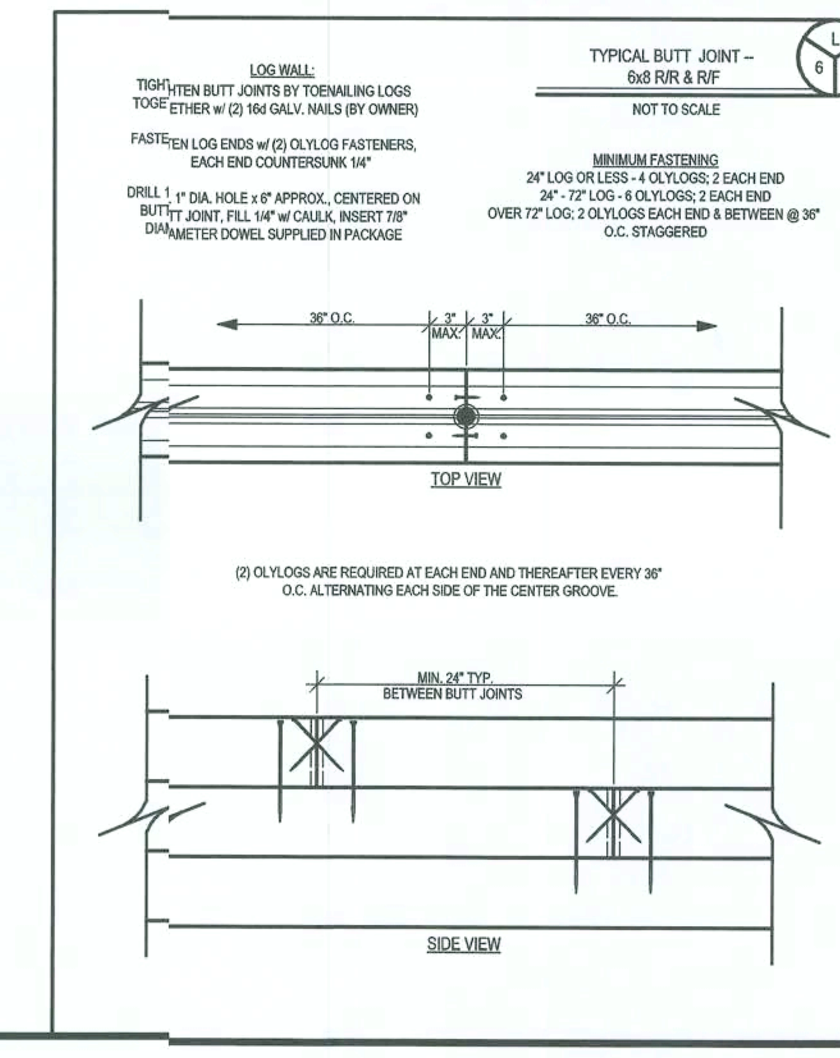
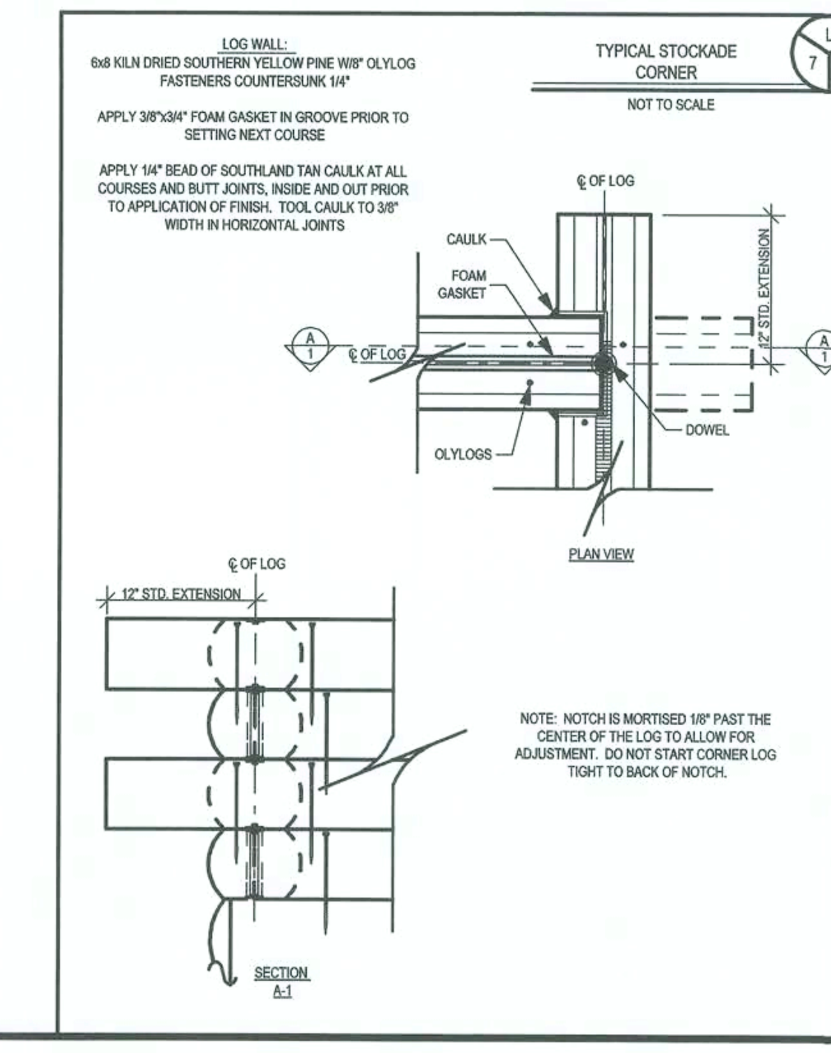
1/20/2006 11:50 AM ARCHICAD VERSION 8.1

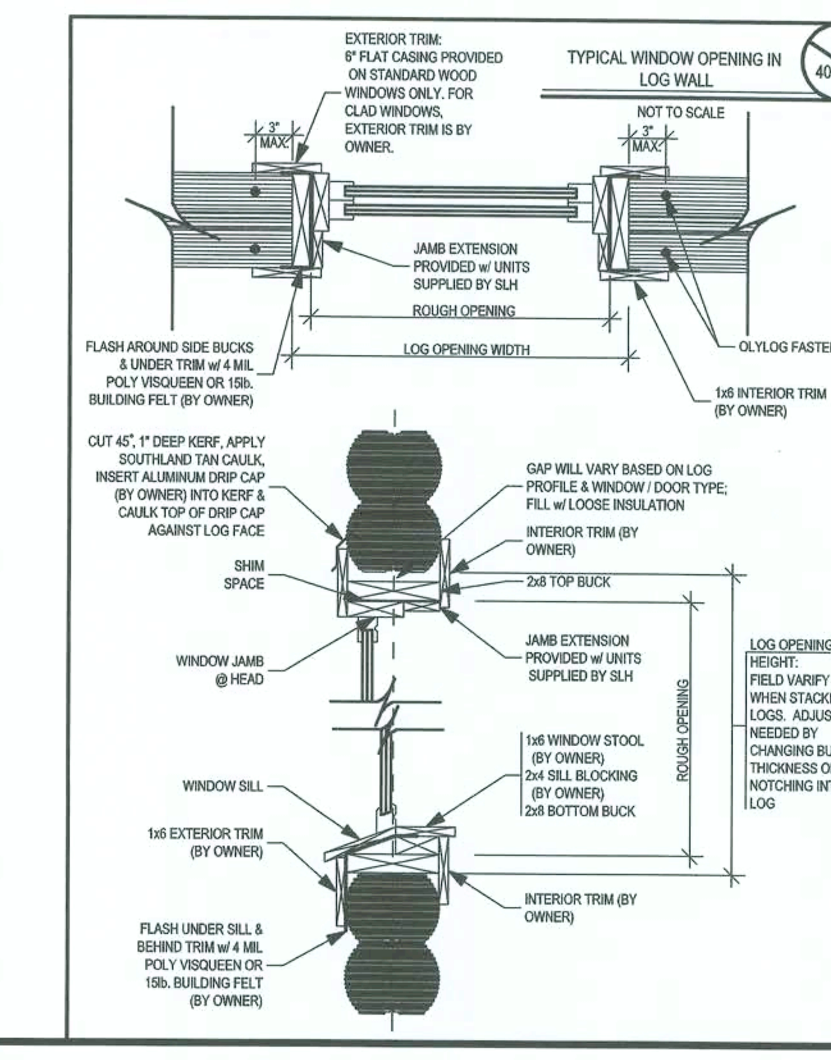


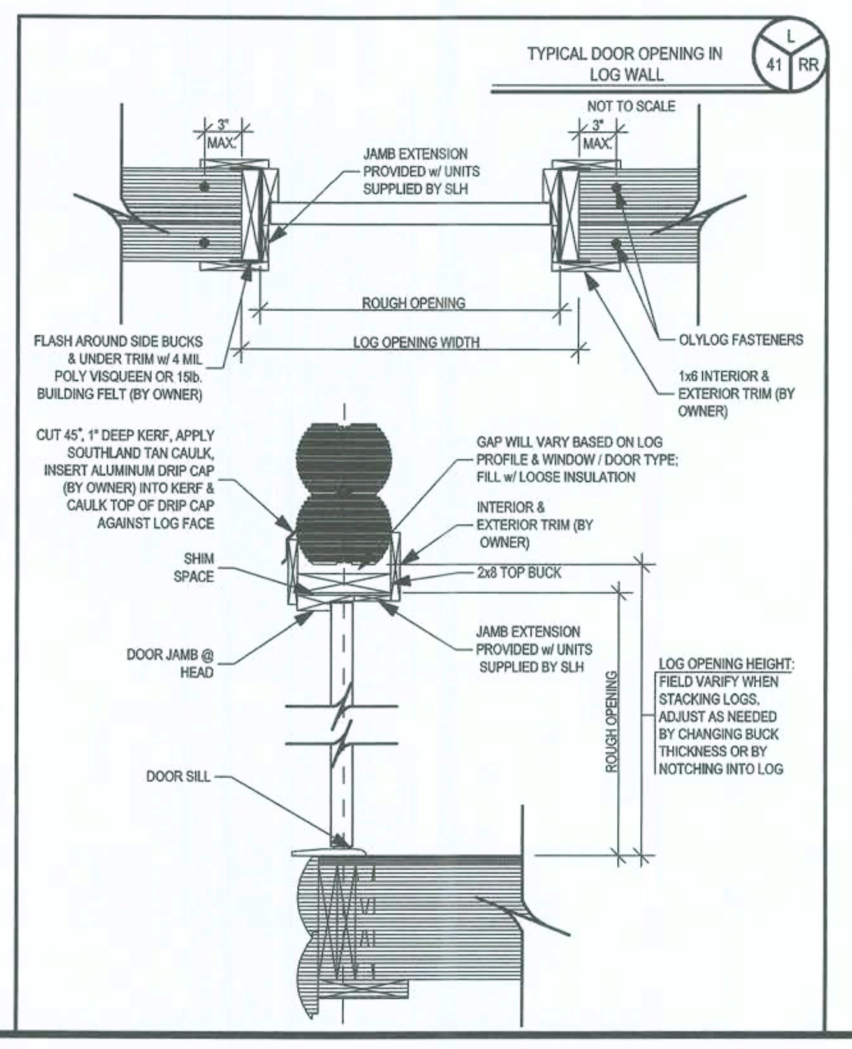


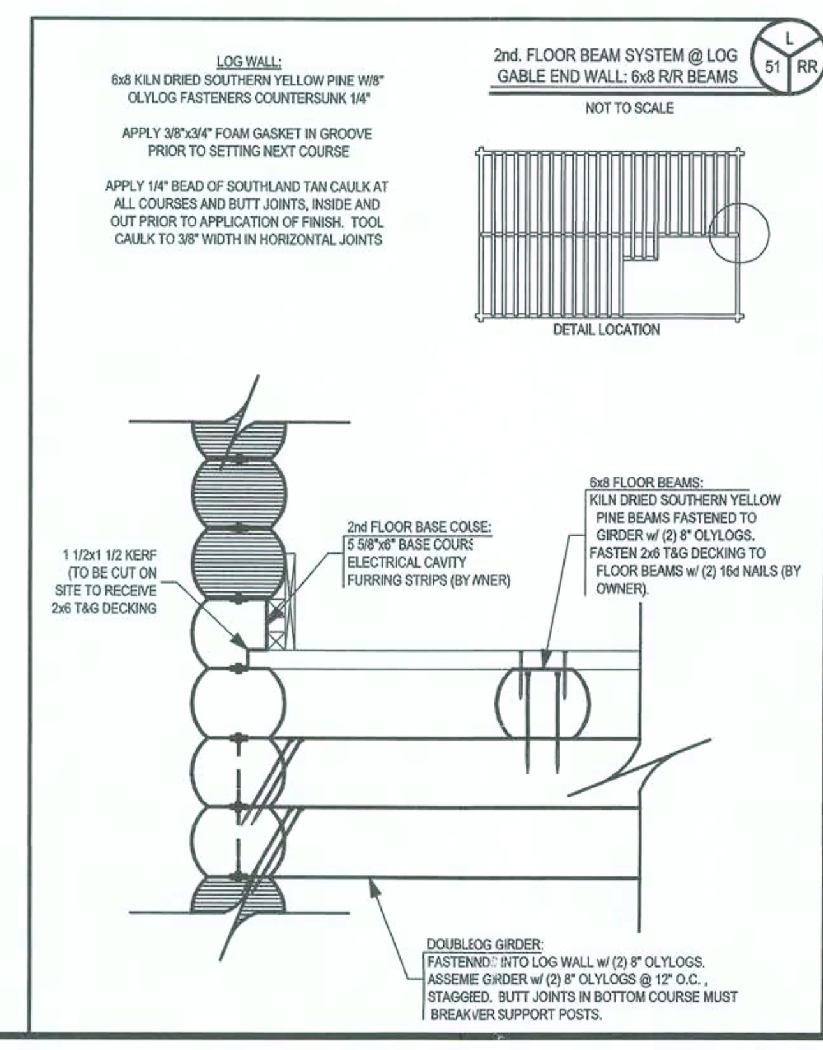


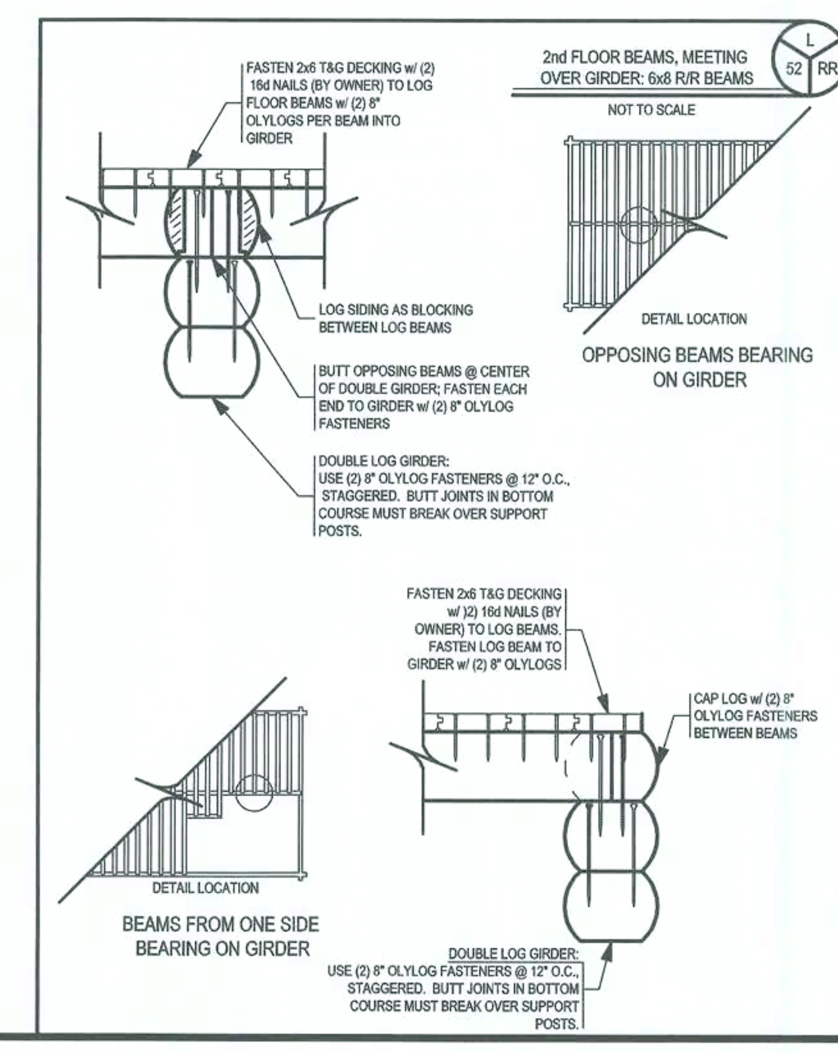


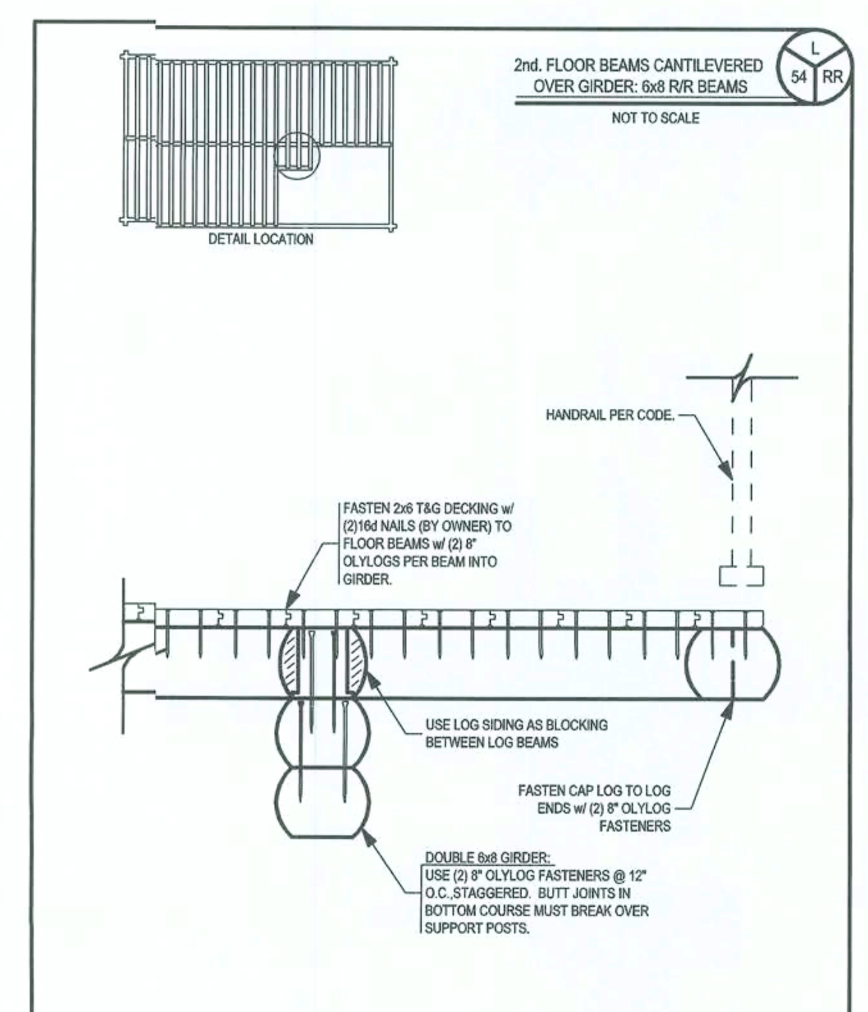


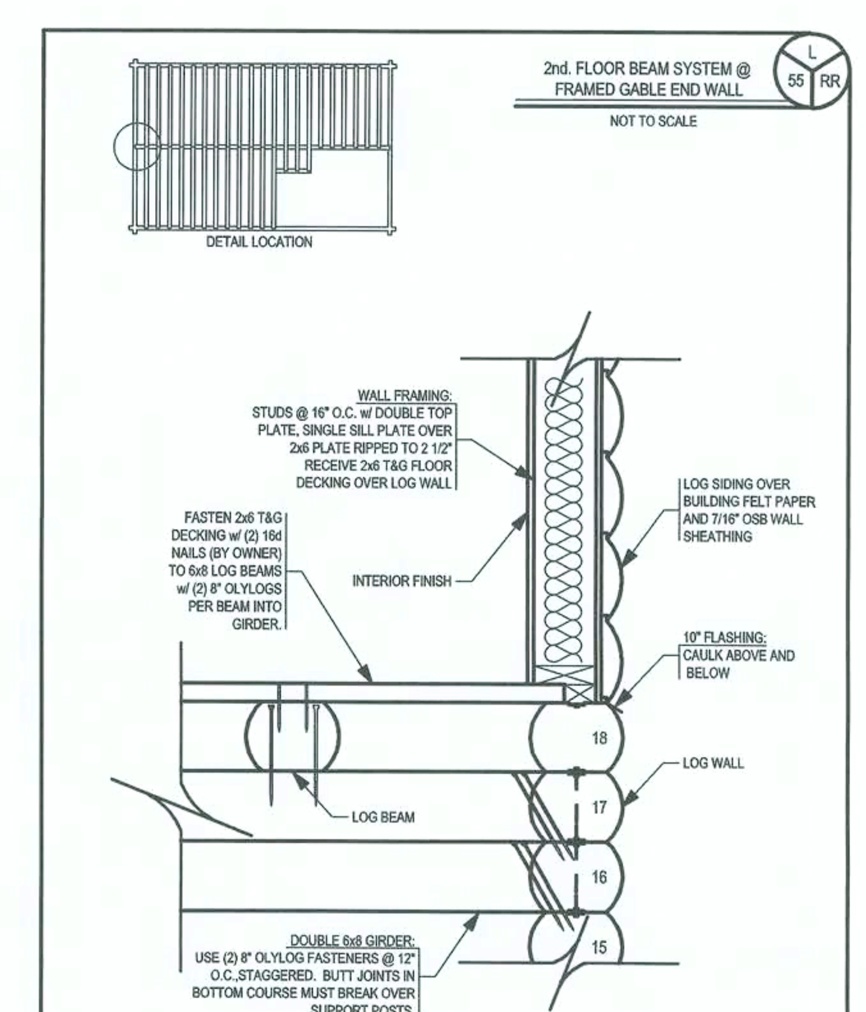


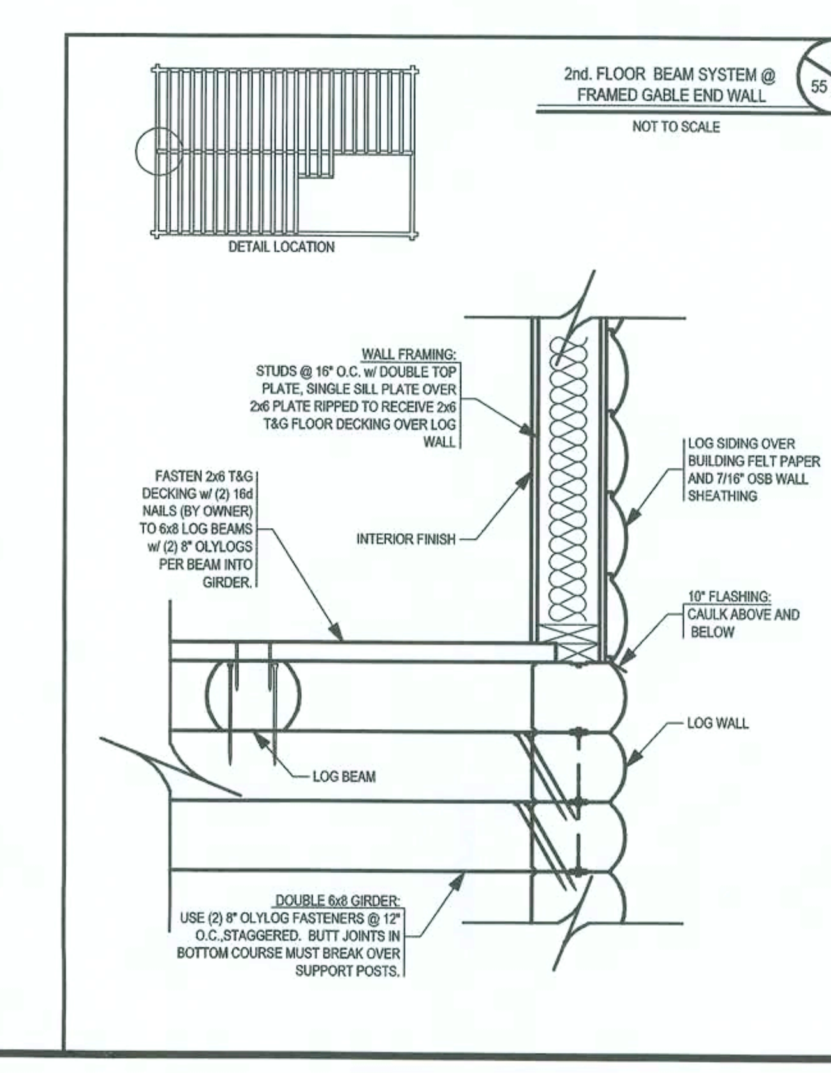


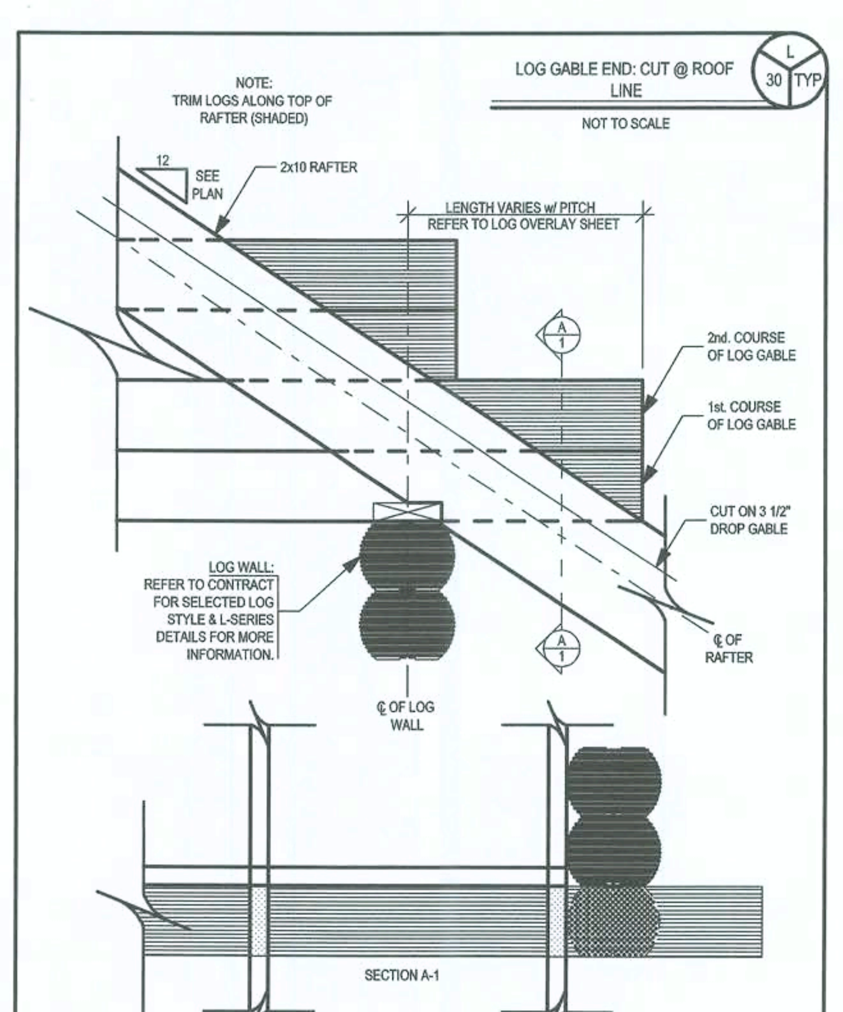


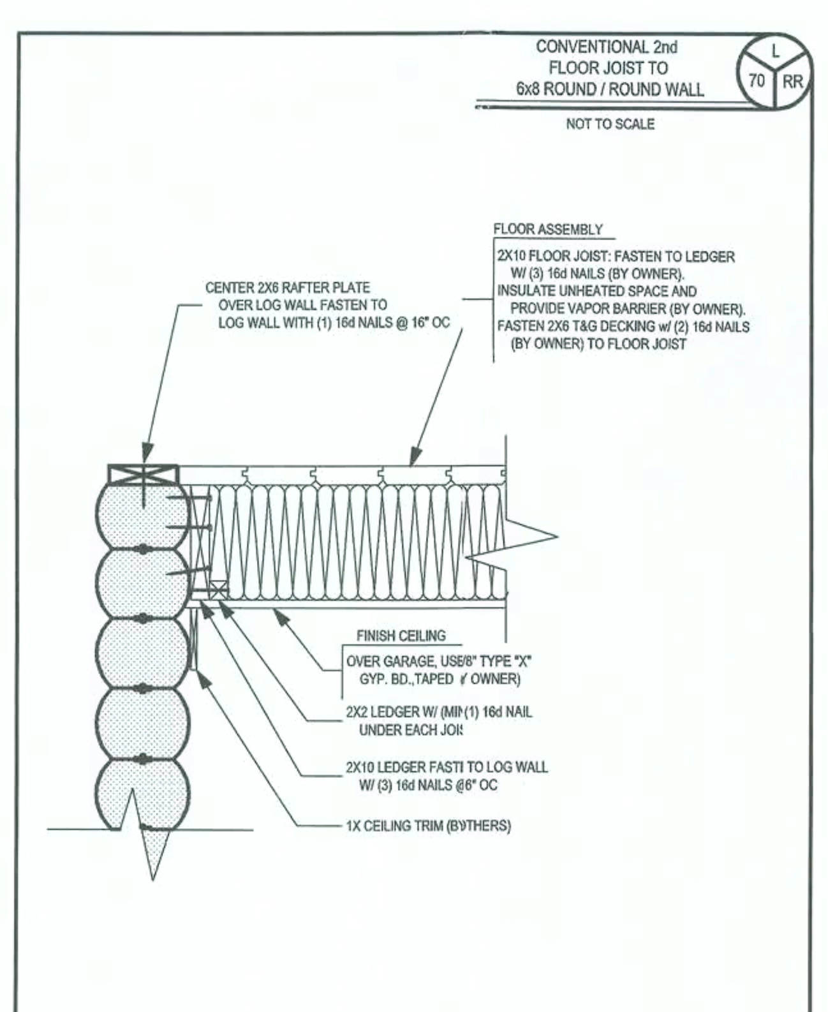


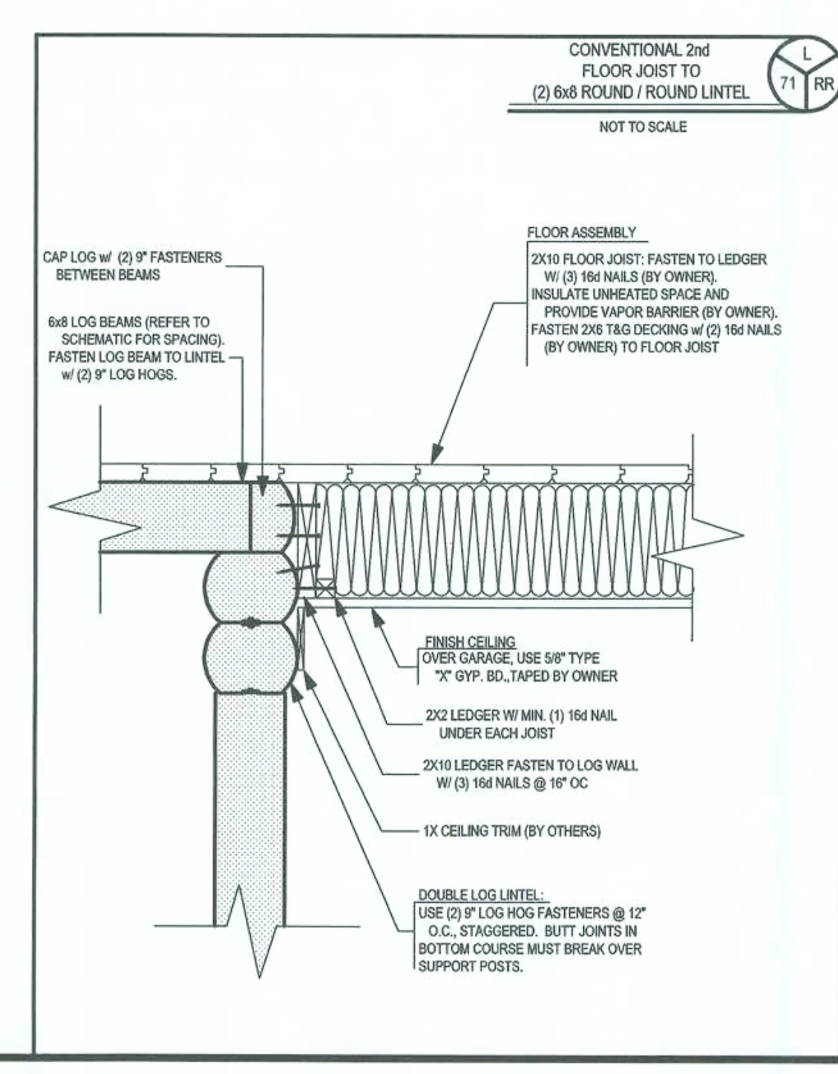


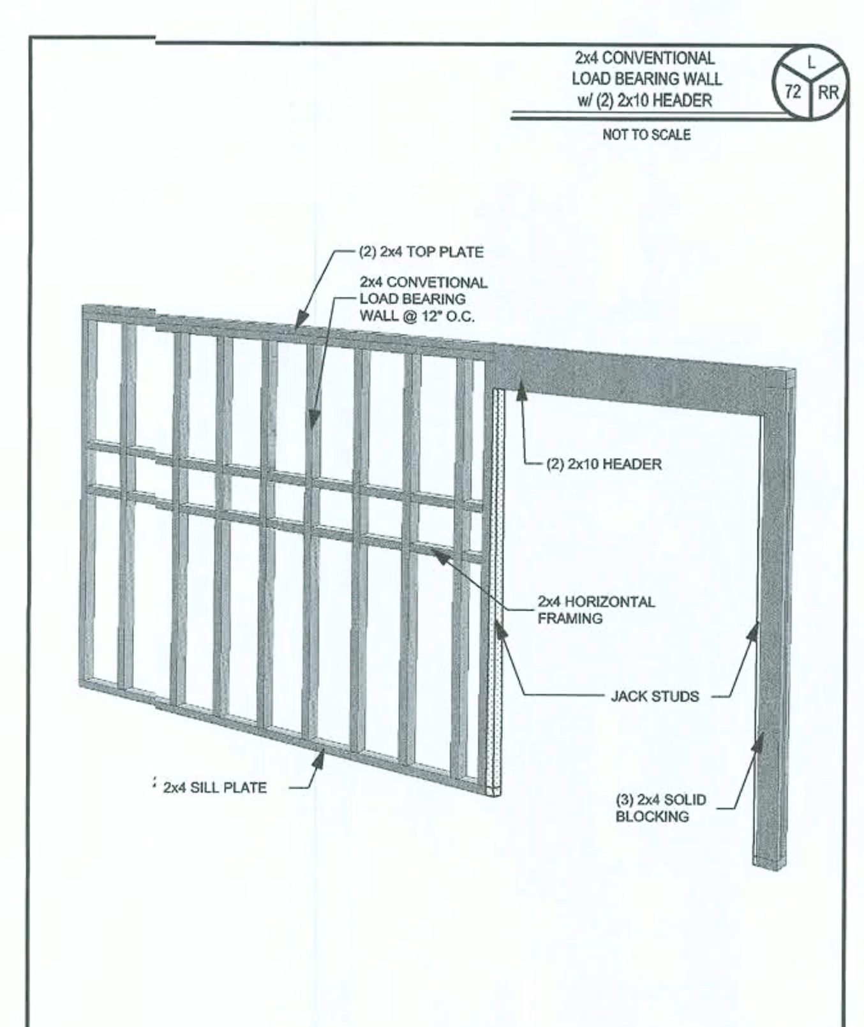


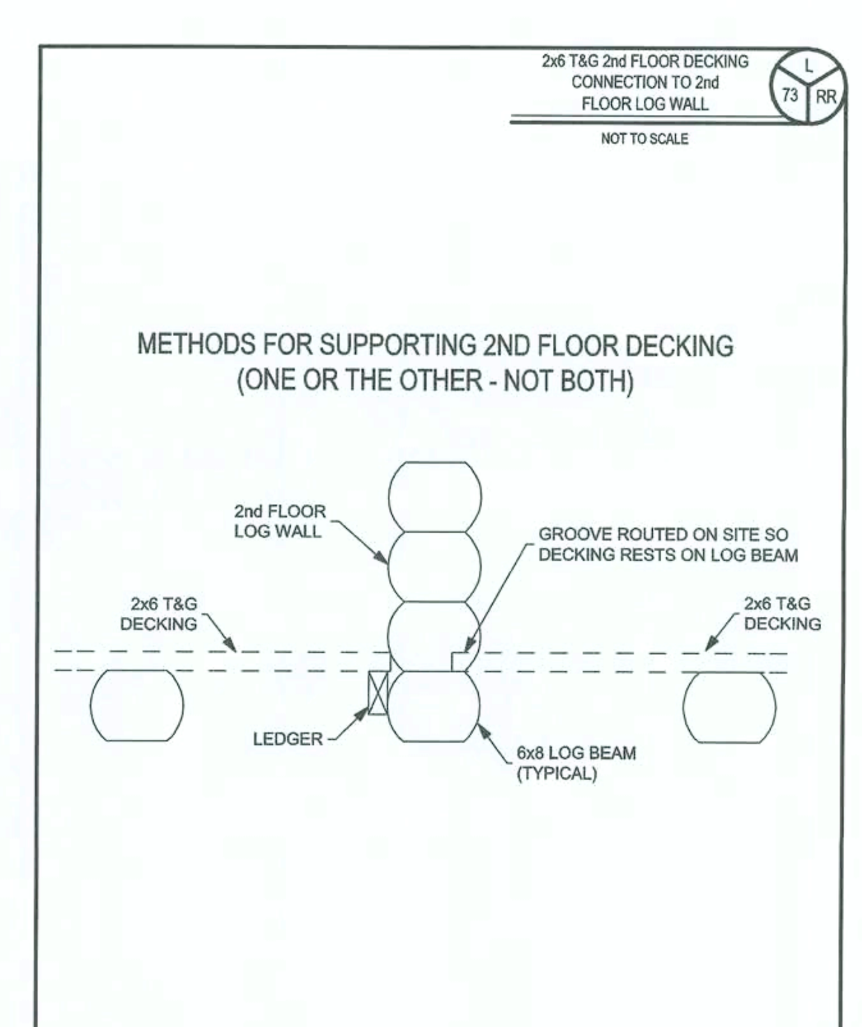












TYPICAL DETAILS

THE DETAILS CONTAINED ON THIS PAGE ILLUSTRATE THE TYPICAL USE OF MATERIALS IN THE ASSEMBLY OF SOUTHLAND LOG HOME MATERIAL PACKAGES. ONE OR MORE OF THESE DETAILS MAY NOT APPLY TO ANY ONE SPECIFIC PROJECT. YOUR CONTRACT PRICE QUOTE, AND THE INFORMATION PRESENTED IN YOUR PLANS TAKE PRECEDENCE OVER SPECIFICATIONS SHOWN HERE.

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PLAN DATE: 01/17/06
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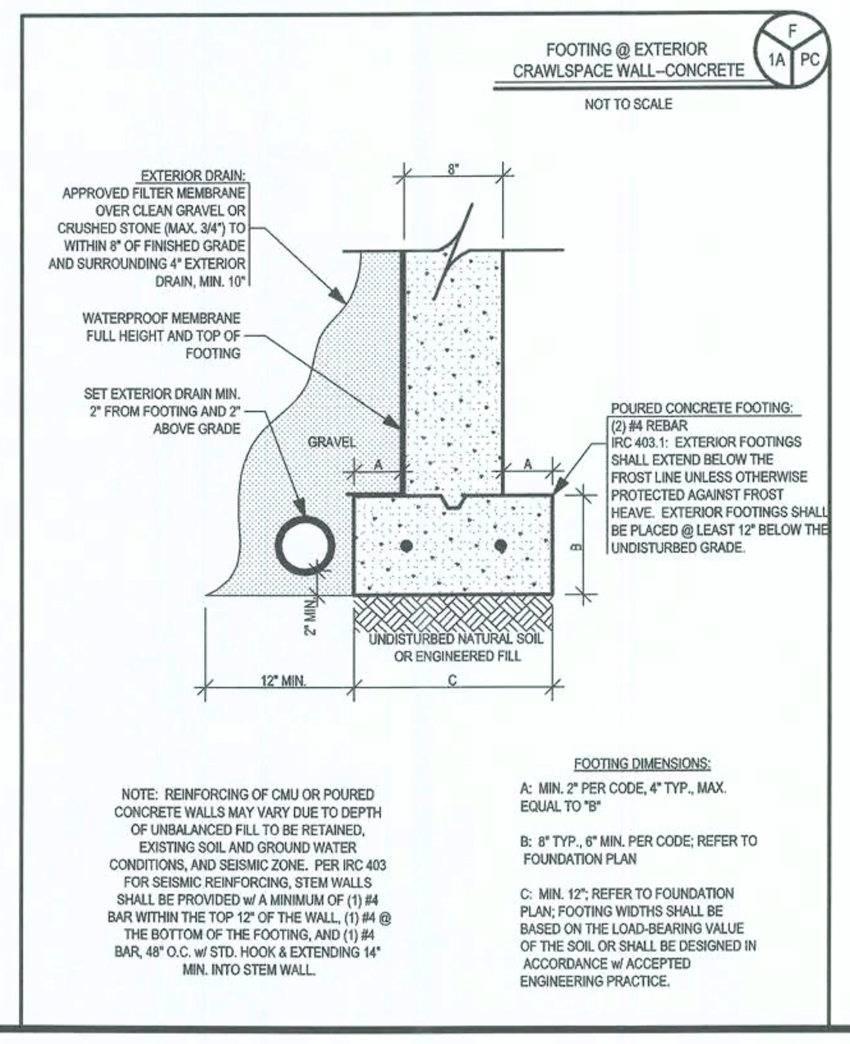

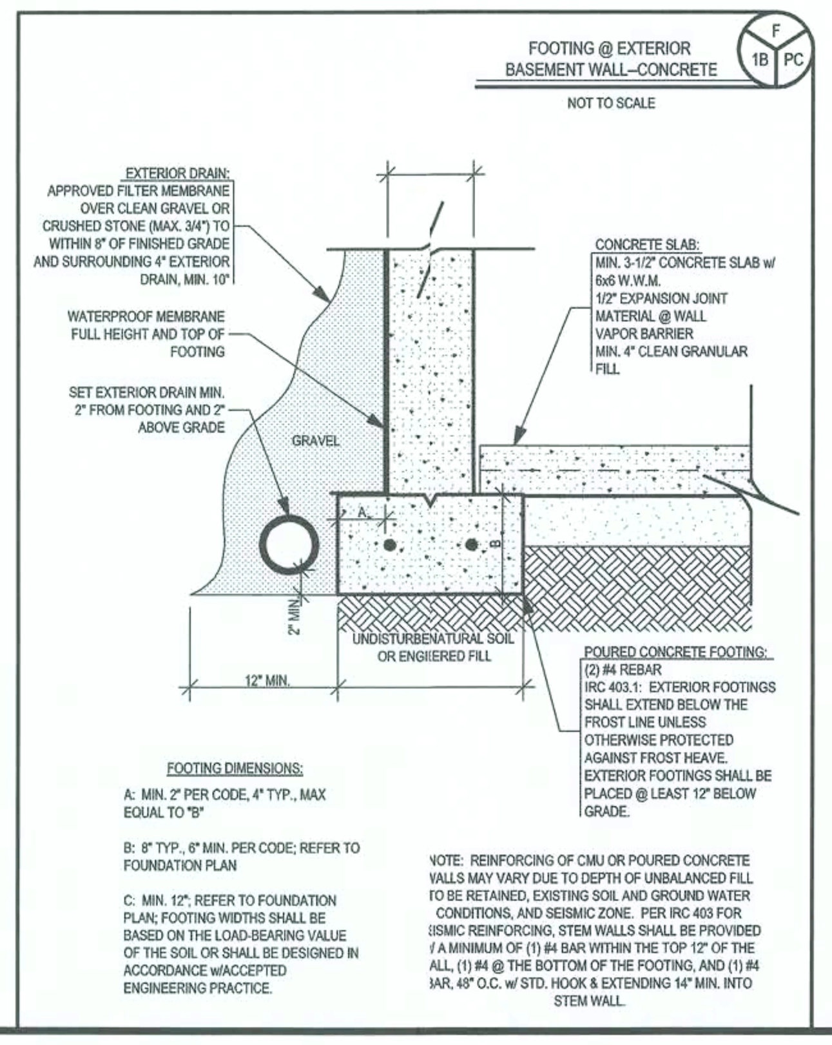

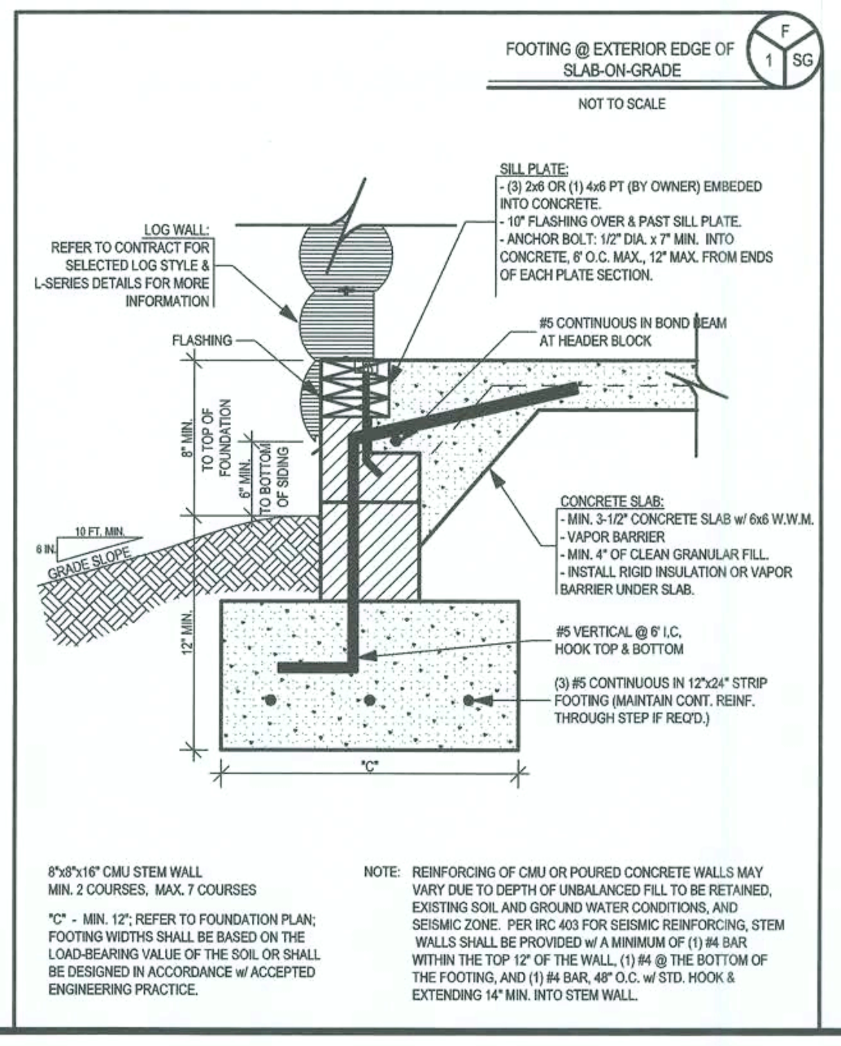

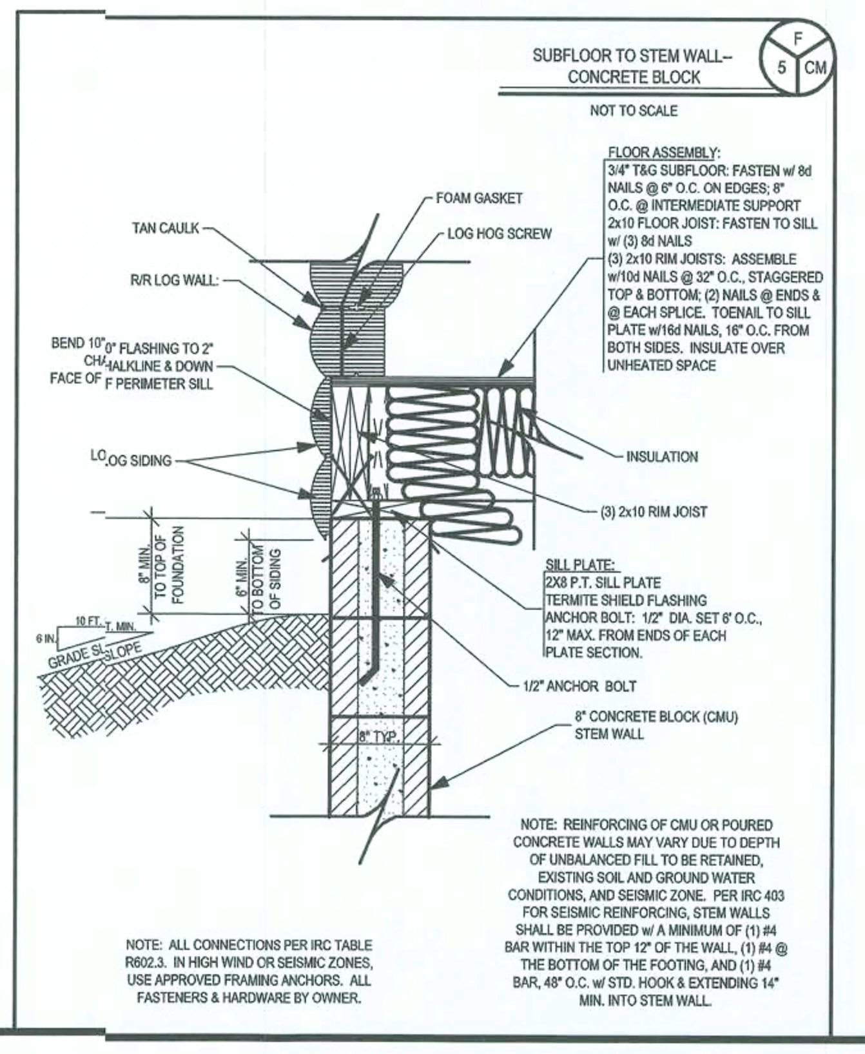

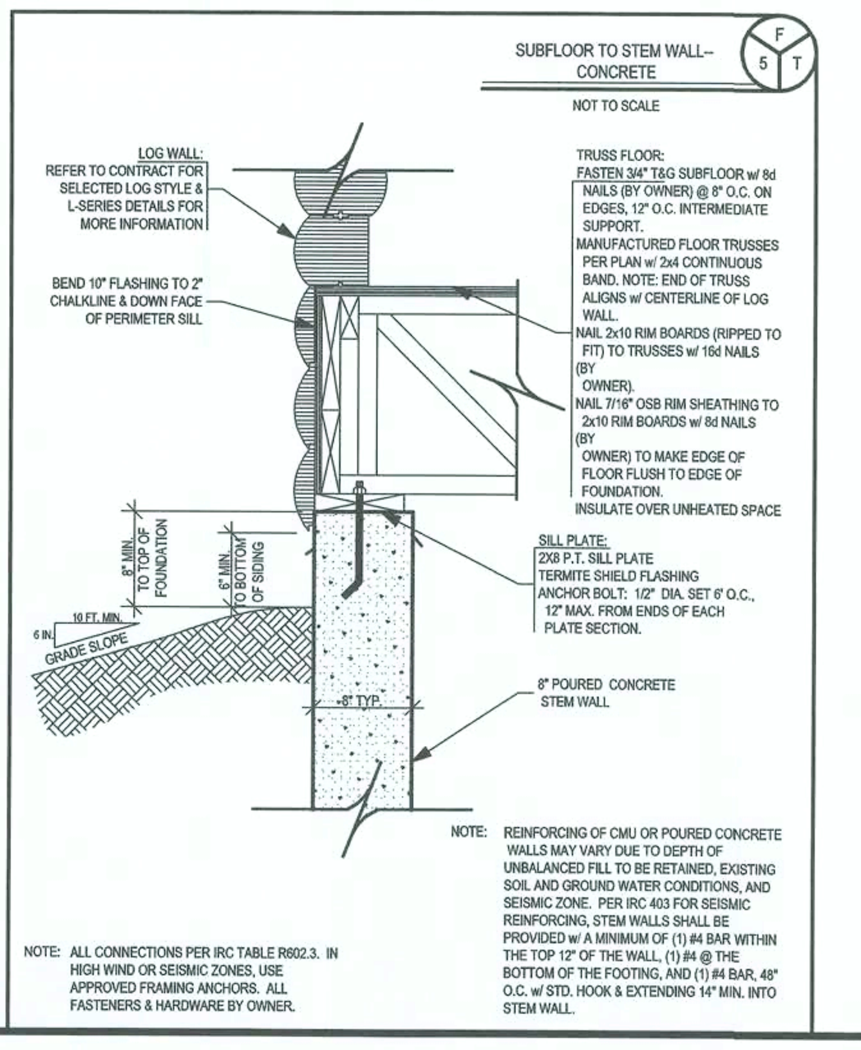

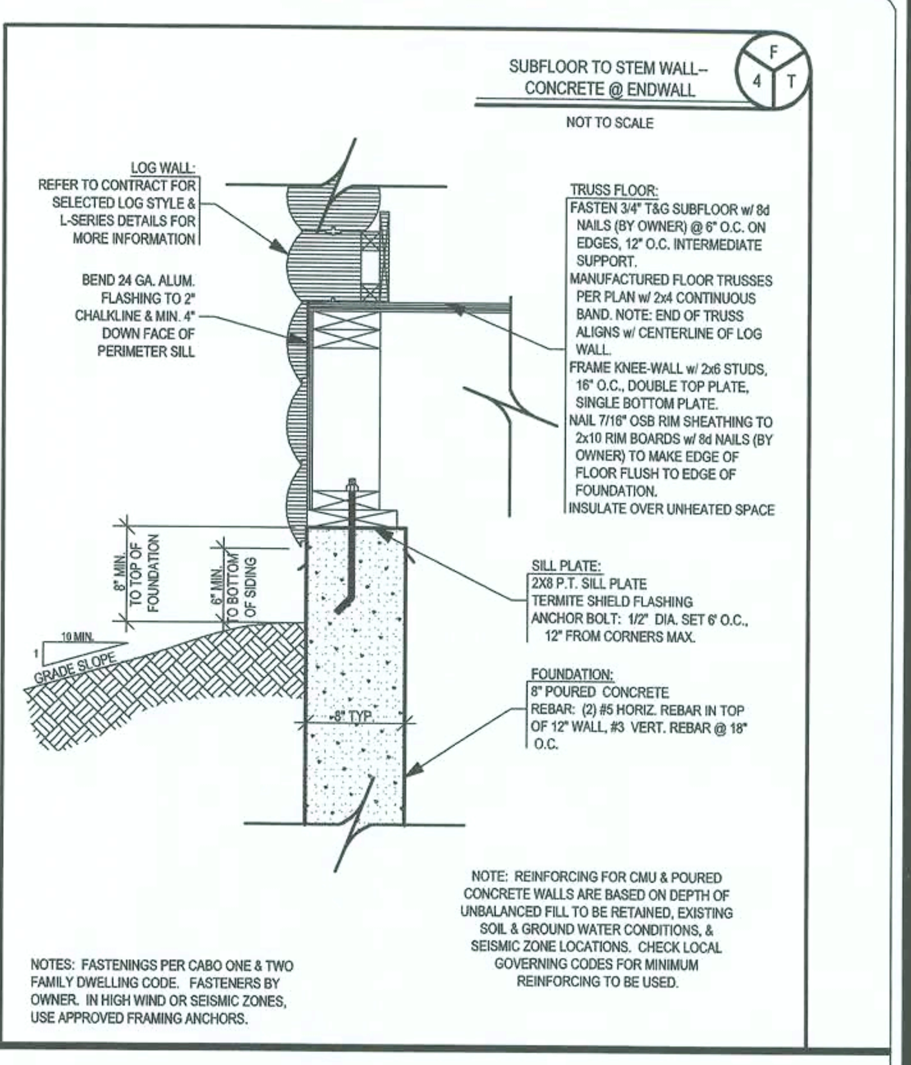

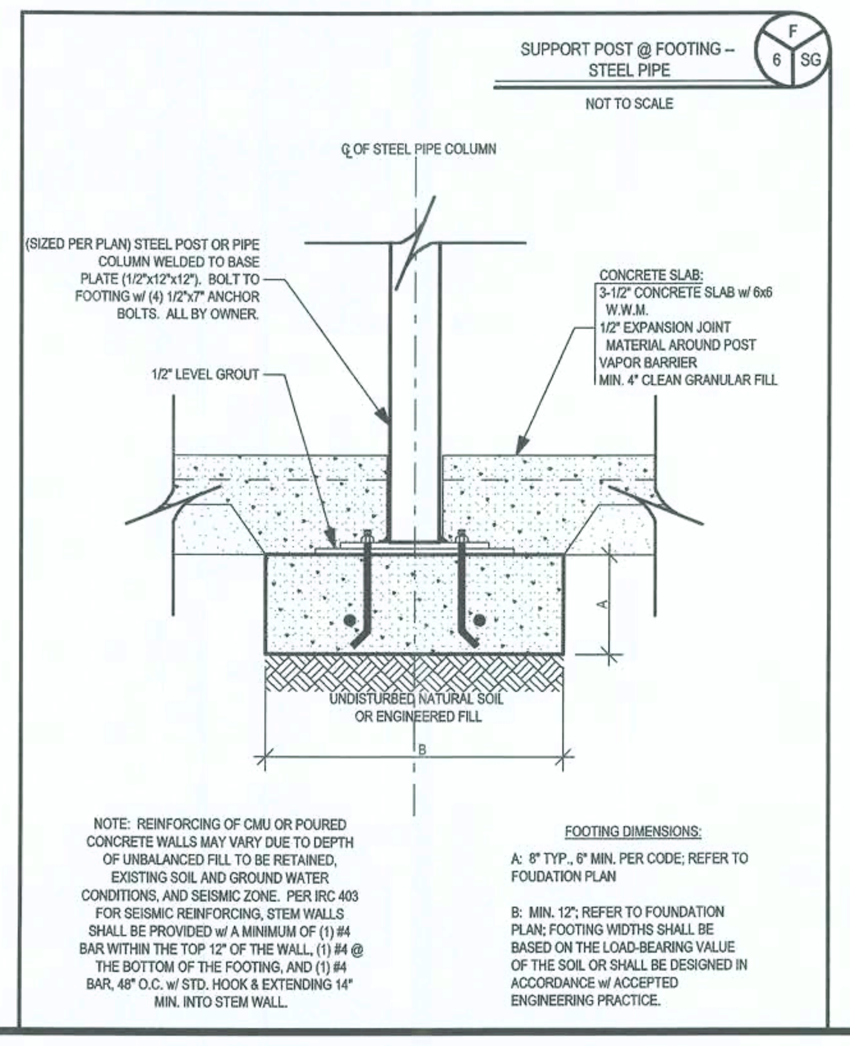

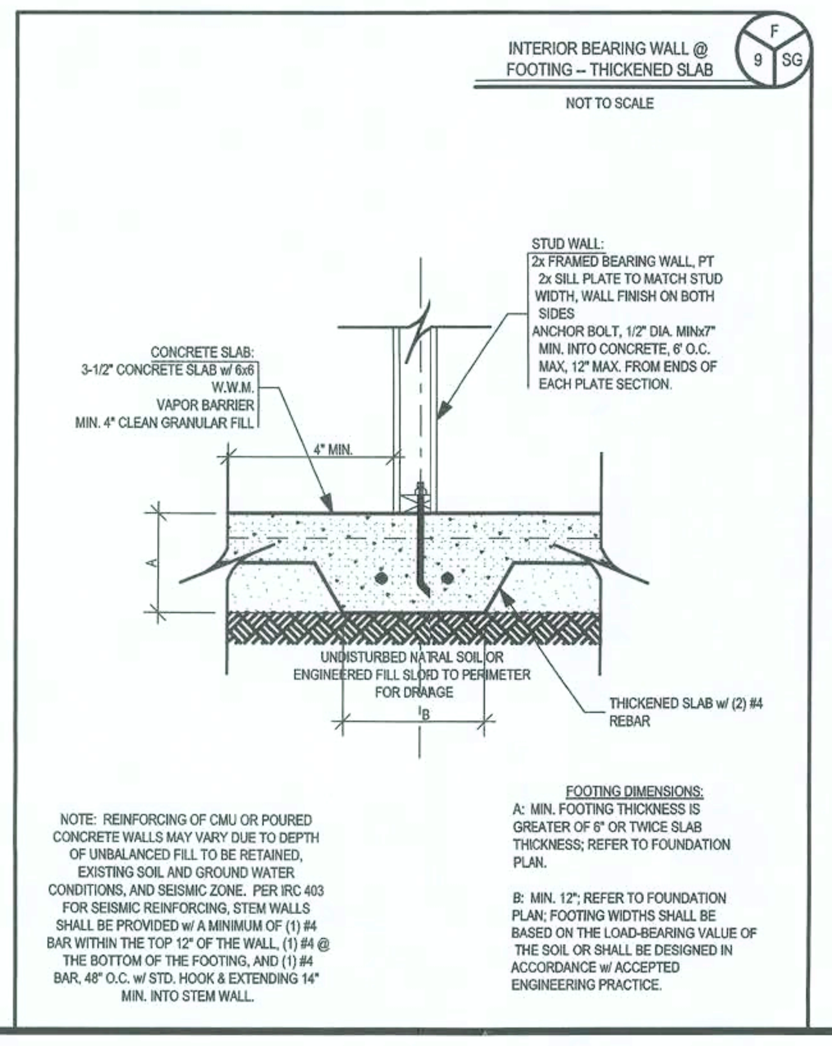

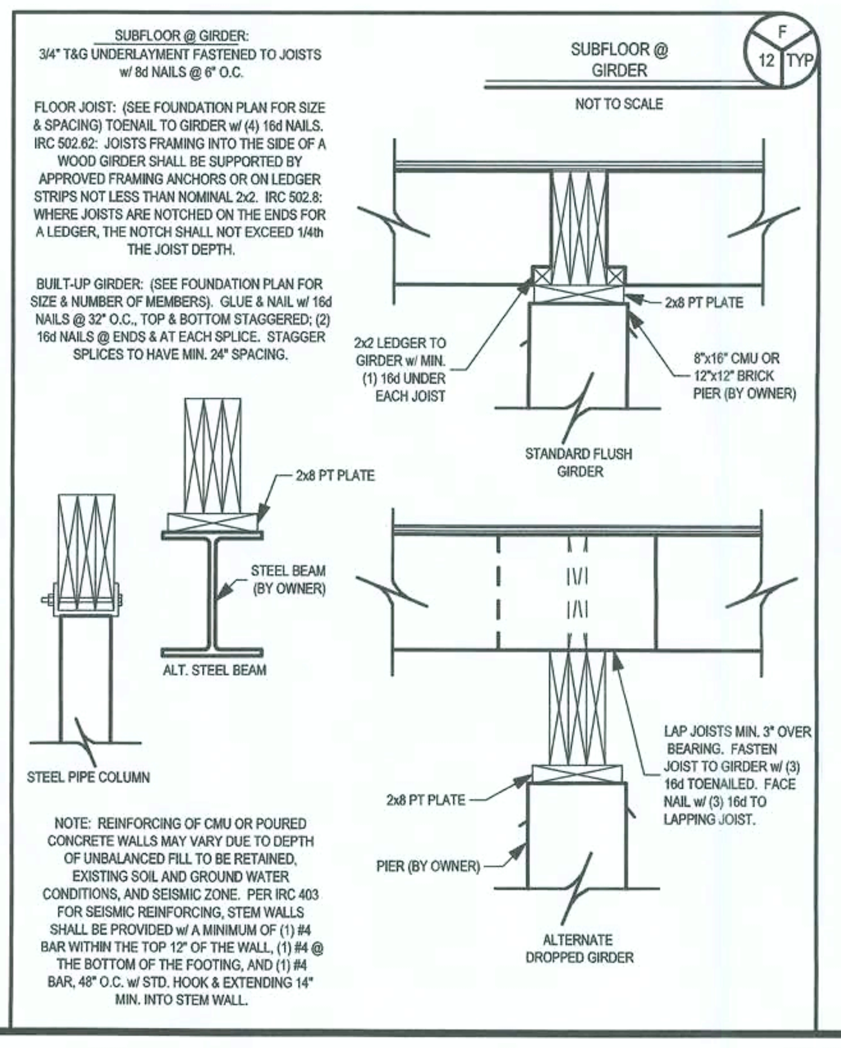

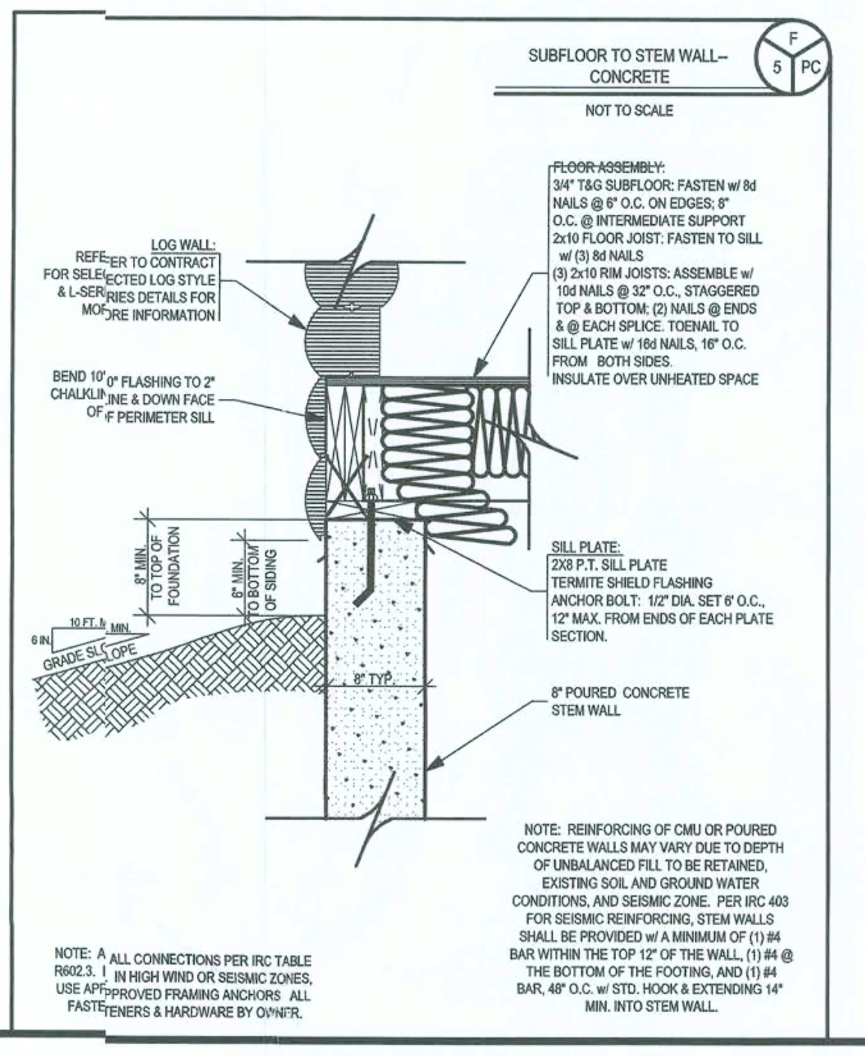

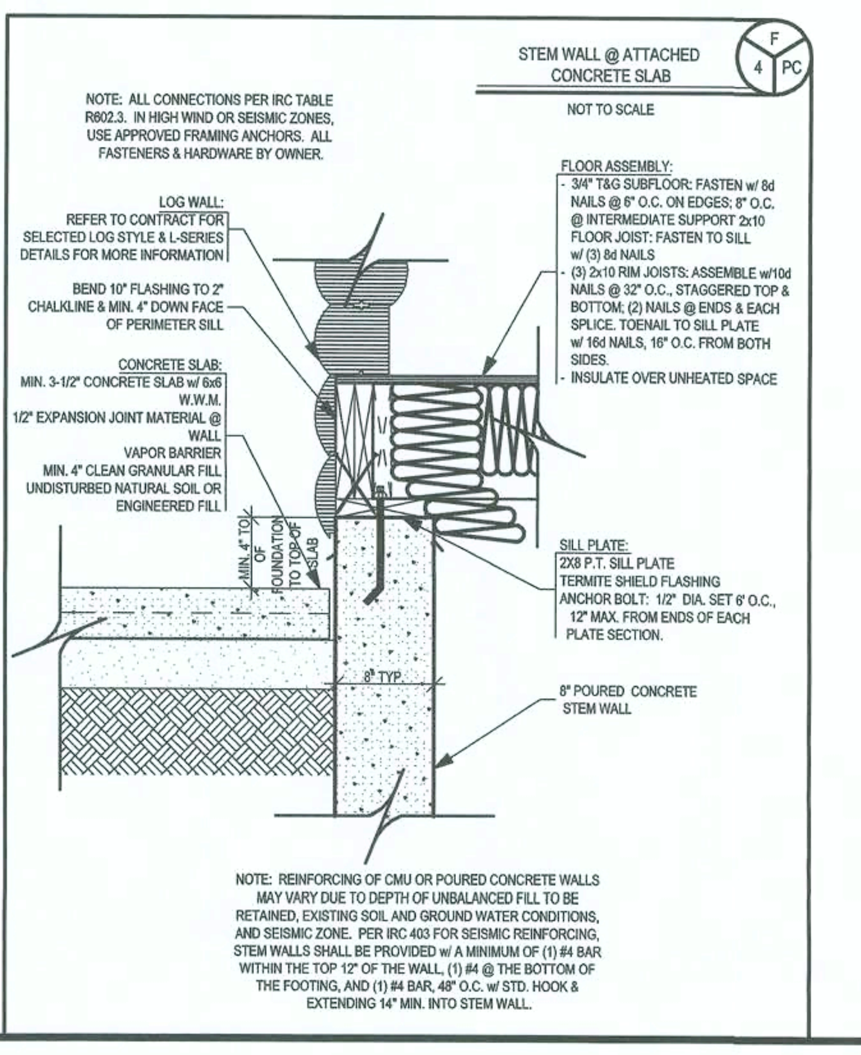

TYPICAL DETAILS

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IMPORTANT NOTES READ CAREFULLY
FINAL PLANS

WARNING!

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

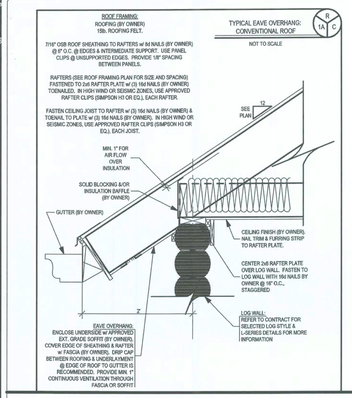
DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

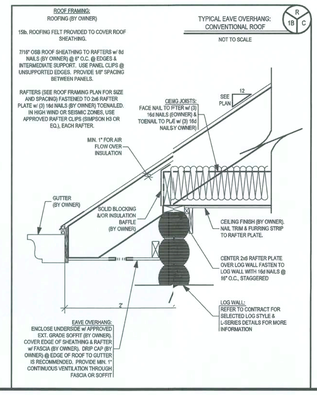
SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

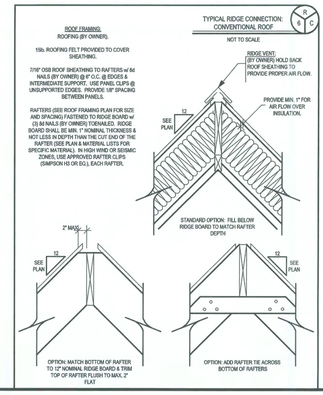
MODEL: **CUSTOM**
DESIGNED BY: **MRL**
CHECKED BY: **AJJ**
PLAN DATE: **01/17/06**
DELIVERY DATE: **03/28/06**

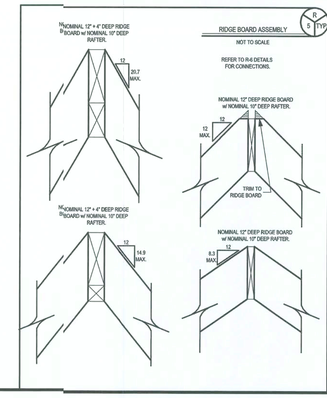
0603673
PROJECT NUMBER

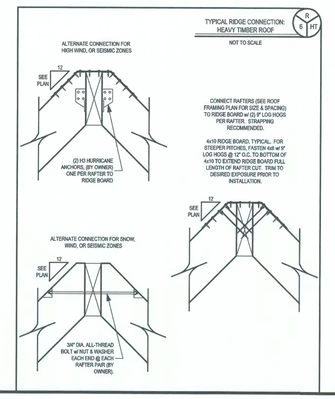
6.2
SHEET NUMBER

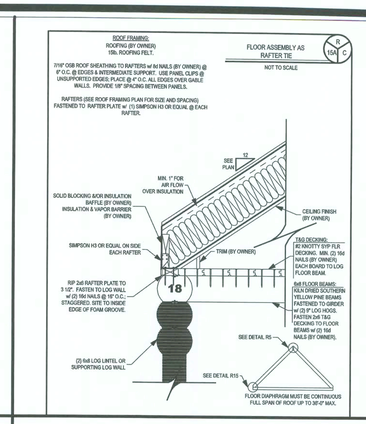


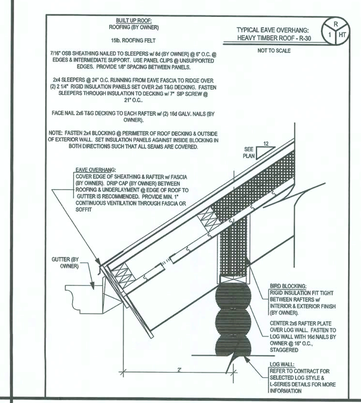


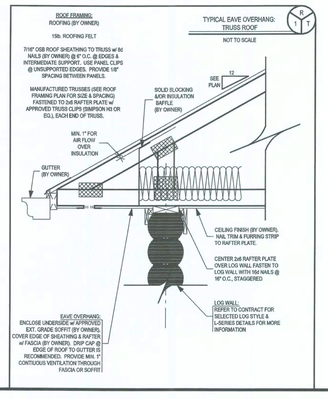


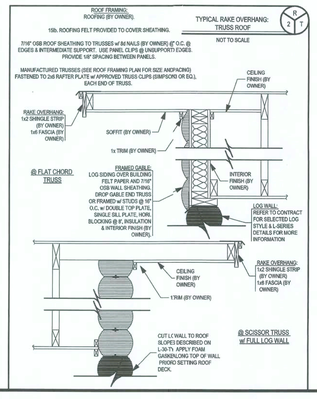


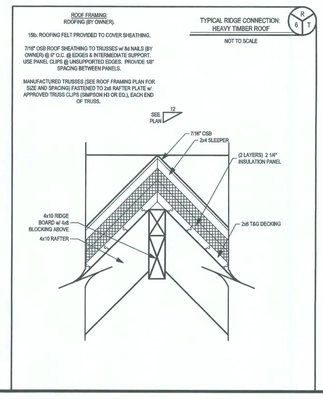


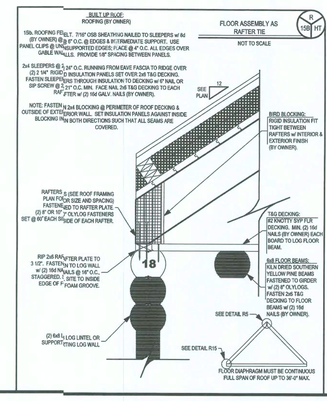


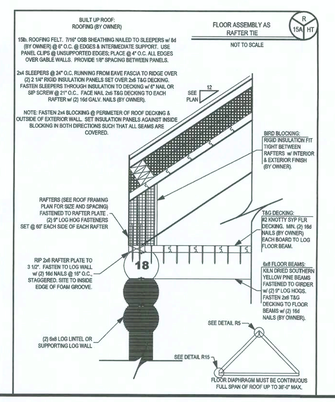


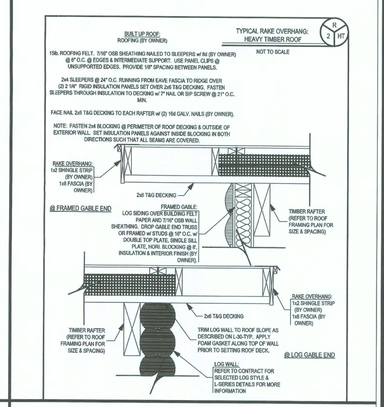












TYPICAL DETAILS

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REVISIONS:

LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

WARNING!

This Southland Log Home package has been designed according to the purchase contract specifications and is intended to be constructed in accordance with these plans. All unauthorized deviations become the responsibility of the owner as it may result in structural failure and/or violation of applicable building codes and will void the warranty on this product.

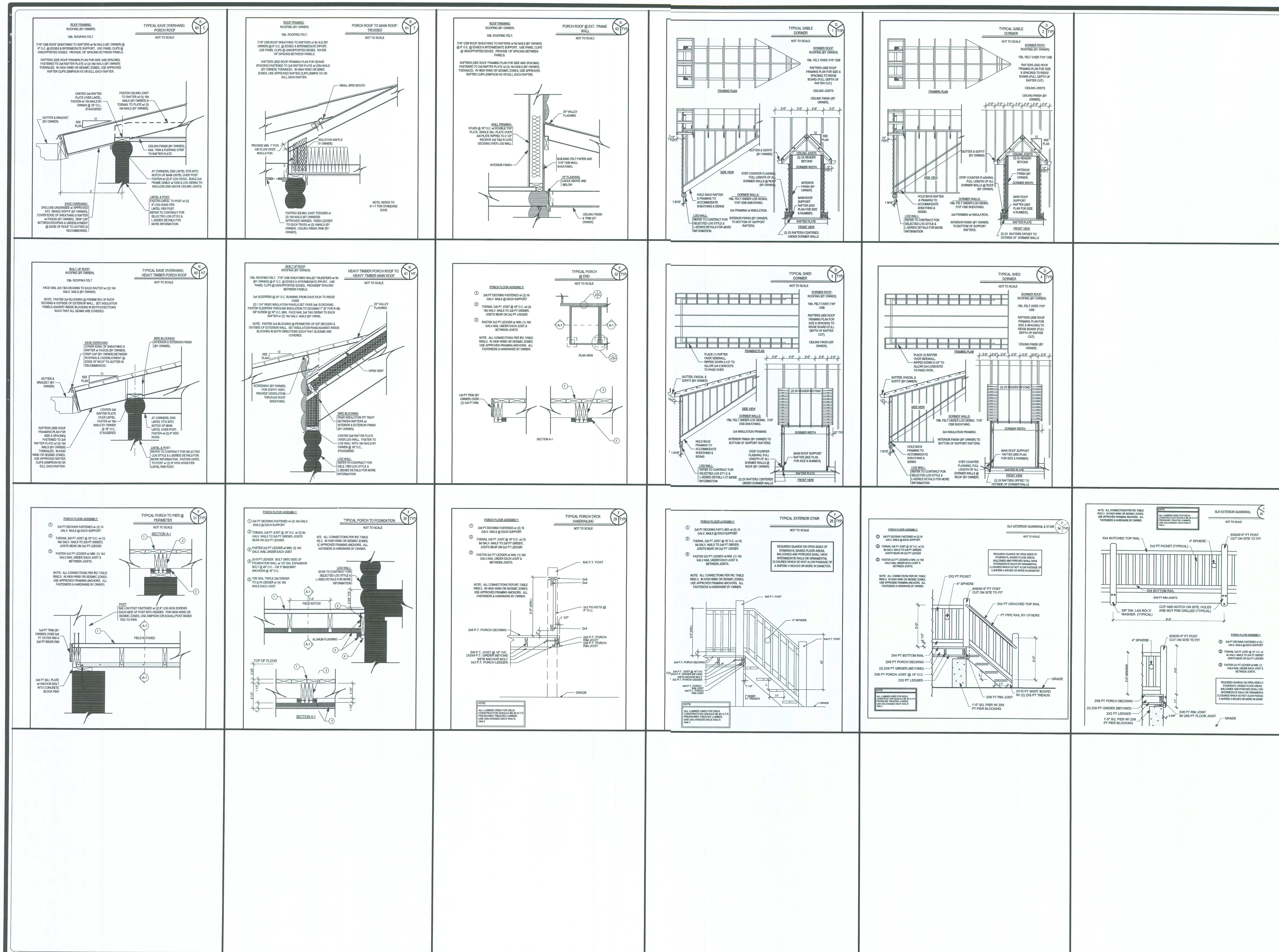
MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT.
LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROADWAY ROAD
P.O. BOX 1588
IRMO, SC 29063-1668
800-845-3505 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

6.3
SHEET NUMBER



TYPICAL DETAILS

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IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	

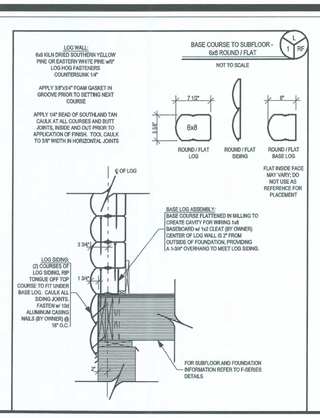
182 W. VOYAGER CT.
LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

6.4
SHEET NUMBER



THE DETAILS CONTAINED ON THIS PAGE ILLUSTRATE THE TYPICAL USE OF MATERIALS IN THE ASSEMBLY OF SOUTHLAND LOG HOMES' MATERIAL PACKAGES. ONE OR MORE OF THESE DETAILS MAY NOT APPLY TO ANY ONE SPECIFIC PROJECT. YOUR CONTRACT PLANS TAKE PRECEDENCE OVER SPECIFICATIONS SHOWN HERE.

TYPICAL DETAILS

IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

WARNING!
This Southland Log Home package has been designed according to the purchaser's contract and applicable building codes and must be constructed in accordance with these plans. Southland Log Homes assumes no responsibility of this owner as it may result in unsafe conditions, structural concerns, violate building codes and void the warranty on this product.

LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT.
LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
IRMO, S.C. 29063
800-845-3355 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

6.6
SHEET NUMBER

ITS Intertek Testing Services

Test Data Review Certificate

Certificate #3026447B

This certifies that Intertek Testing Services/ETL Semko has reviewed structural load test data and documentation supplied by Masonite/Premdor Exterior Door Products on the product lines indicated below to determine the appropriate design load and impact ratings as specified by Miami-Dade County, Florida Protocol PA201, PA202 and PA203.

The data supplied was reviewed for applicability in support of the data contained in the Masonite/Premdor Product Performance Data Manual for the product line and product models indicated below. ITS/ETL Semko certifies that the test reports provided are consistent with the Masonite Certificate of Performance sheets (COP's) contained in the product performance data manual specified herein. The attached Masonite/Premdor COP/Test Report Validation Matrices (uniquely numbered by product model) provides correlation information for each product model reviewed indicating the test lab, report number(s), product size and installation information and ratings for design load and applicability of the large missile impact test. All applicable COP's and Matrices must bear the Warnock Hersey verification stamp.

Product Line: **Castlegate Entry Doors**

Product Models:	
Wood-Edge Steel Door Units	**(Matrix #3026447B-001)**
Metal-Edge Steel Door Units	**(Matrix #3026447B-002)**
Fiberglass Door Units	**(Matrix #3026447B-003)**
Flush Glazed Door Units	**(Matrix #3026447B-004)**

ITS/ETL-Semko has no direct knowledge of the tests conducted and has made no attempt to verify the accuracy or correctness of the data submitted. The review conducted was only to determine that the manufacturer's claims as represented in the COP's are correct representations of the data supplied from the laboratories. ITS/ETL Semko's review was for structural performance results only and did not include review of air infiltration or water penetration test results.

ISSUED: 6-14-02

Revision Date: July 31, 2002
Supercedes Certificate #3026447B
Issued June 14, 2002

BY: Jim Turgeson
Jim Turgeson, Project Manager

Entry Systems

FLUSH GLAZED DOORS

COP# (WL-)	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type¹	+DP (psf)	w/Surf. Bolts	-DP Appr'd	w/Surf. Bolts	Impact	Ref. Test Reports²	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
MA3241-02	X	I	36 X 80	1	36 X 80	IG	40.0	60.0	-40.0	-60.0	N	CTLA826W	0001-02; 0042-02	0001-02
MA3242-02	XX	I	72 X 80	1, 2	36 X 80	IG	40.0	60.0	-40.0	-60.0	N	CTLA826W	0002-02; 0042-02	0002-02
MA3243-02	XO/OX	I	72 X 80	1	36 X 80	IG	40.0	60.0	-40.0	-60.0	N	CTLA826W	0003-02; 0006/0042-02	0003-02
				SL	36 X 80	IG	40.0	60.0	-40.0	-60.0	N			
MA3244-02	OXO	I	108 X 80	1	36 X 80	IG	40.0	60.0	-40.0	-60.0	N	CTLA826W	0004-02; 0007/00042-02	0004-02
				SL	36 X 80	IG	40.0	60.0	-40.0	-60.0	N			
MA3245-02	OXXO	I	144 X 80	1, 2	36 X 80	IG	40.0	60.0	-40.0	-60.0	N	CTLA826W	0005-02; 0008/0042-02	0005-02
				SL	36 X 80	IG	40.0	60.0	-40.0	-60.0	N			
MS3246-02	X	I	36 X 96	1	36 X 96	IG	50.0	NA	-55.0	NA	N	CTLA860W	0001-02; 0042-02	0001-02
MA3247-02	XX	I	72 X 96	1, 2	36 X 96	IG	50.0	NA	-55.0	NA	N	CTLA860W	0002-02, 0042-02	0002-02
MA3248-02	XO/OX	I	72 X 96	1	36 X 96	IG	50.0	NA	-55.0	NA	N	CTLA860W	0003-02; 0006/0042-02	0003-02
				SL	36 X 96	IG	50.0	NA	-55.0	NA	N			
MA3249-02	OXO	I	108 X 96	1	36 X 96	IG	50.0	NA	-55.0	NA	N	CTLA860W	0004-02; 0007/0042-02	0004-02
				SL	36 X 96	IG	50.0	NA	-55.0	NA	N			
MA3250-02	OXXO	I	144 X 96	1, 2	36 X 96	IG	50.0	NA	-55.0	NA	N	CTLA860W	0005-02; 0008/0042-02	0005-02
				SL	36 X 96	IG	50.0	NA	-55.0	NA	N			
MA3261-02	X	O	36 X 80	1	36 X 80	IG	46.0	60.0	-43.0	-60.0	N	CTLA-826W	0011-02, 0042-02	0001-02
MA3262-02	XX	O	72 X 80	1, 2	36 X 80	IG	46.0	60.0	-43.0	-60.0	N	CTLA-826W	0012-02; 0042-02	0002-02
MA3263-02	XO/OX	O	72 X 80	1	36 X 80	IG	46.0	60.0	-43.0	-60.0	N	CTLA-826W	0013-02; 0016/0042-02	0003-02
				SL	36 X 80	IG	46.0	60.0	-43.0	-60.0	N			
MA3264-02	OXO	O	108 X 80	1	36 X 80	IG	46.0	60.0	-43.0	-60.0	N	CTLA-826W	0014-02; 0017/0042-02	0004-02
				SL	36 X 80	IG	46.0	60.0	-43.0	-60.0	N			
MA3265-02	OXXO	O	144 X 80	1, 2	36 X 80	IG	46.0	60.0	-43.0	-60.0	N	CTLA-826W	0015-02; 0018/0042-02	0005-02
				SL	36 X 80	IG	46.0	60.0	-43.0	-60.0	N			
MA 3266-02	X	O	36 X 96	1	36 X 96	IG	50.0	NA	-50.5	NA	N	CTLA-860W	0011-02; 0042-02	0001-02
MA3267-02	XX	O	72 X 96	1, 2	36 X 96	IG	50.0	NA	-50.5	NA	N	CTLA-860W	0012-02; 0042-02	0002-02
MA3268-02	XO/OX	O	72 X 96	1	36 X 96	IG	50.0	NA	-50.5	NA	N	CTLA-860W	0013-02; 0016/0042-02	0003-02
				SL	36 X 96	IG	50.0	NA	-50.5	NA	N			
MA3269-02	OXO	O	108 X 96	1	36 X 96	IG	50.0	NA	-50.5	NA	N	CTLA-860W	0014-02; 0017/0042-02	0004-02
				SL	36 X 96	IG	50.0	NA	-50.5	NA	N			
MA3270-02	OXXO	O	144 X 96	1, 2	36 X 96	IG	50.0	NA	-50.5	NA	N	CTLA-860W	0015-02; 0018/0042-02	005-02
				SL	36 X 96	IG	50.0	NA	-50.5	NA	N			

¹ O=opaque; IG=insulating glass with minimum 1/8" tempered glazing
² tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203

Warnock Hersey

Masonite®

ITS Intertek Testing Services

Castlegate Entry Systems

COP/Test Report Validation Matrix
#3026447B-003

FIBERGLASS DOORS

COP# (WL-)	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type¹	+DP (psf)	-DP (psf)	Impact Appr'd	Ref. Test Reports²	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
MA0101-02	X	I	36 x 80	1	36 x 80	O	76.0	76.0	N	NCTL 210-1973 1-3	0001-02	0001-02
MA0102-02	XX	I	72 x 80	1, 2	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0002-02	0002-02
MA0103-02	XO/OX	I	50 x 80	1	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0003/0006/0041-02	0003-02
				SL	14 x 80	IG	55.0	55.0	N			
MA0104-02	OXO	I	64 x 80	1	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0004/0007/0041-02	0004-02
				SL	14 x 80	IG	55.0	55.0	N			
MA0105-02	OXXO	I	100 x 80	1, 2	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0005/0008/0041-02	0005-02
				SL	14 x 80	IG	55.0	55.0	N			
MA0106-02	X	I	36 x 96	1	36 x 96	O	70.0	70.0	N	CTLA-772W	0001-02	0001-02
MA0107-02	XX	I	72 x 96	1, 2	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0002-02	0002-02
MA0108-02	XO/OX	I	50 x 96	1	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0003/0006/0041-02	0003-02
				SL	14 x 96	IG	55.0	55.0	N			
MA0109-02	OXO	I	64 x 96	1	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0004/0007/0041-02	0004-02
				SL	14 x 96	IG	55.0	55.0	N			
MA0110-02	OXXO	I	100 x 96	1, 2	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0005/0014-02	0005-02
				SL	14 x 80	IG	55.0	55.0	N			
MA0121-02	X	O	36 x 80	1	36 x 80	O	76.0	76.0	N	NCTL 210-1973 1-3	0011-02	0001-02
MA0122-02	XX	O	72 x 80	1, 2	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0012-02	0002-02
MA0123-02	XO/OX	O	50 x 80	1	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0013/0016/0014-02	0003-02
				SL	14 x 80	IG	55.0	55.0	N			
MA0124-02	OXO	O	64 x 80	1	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0014/0017/0041-02	0004-02
				SL	14 x 80	IG	55.0	55.0	N			
MA0125-02	OXXO	O	100 x 80	1, 2	36 x 80	O	55.0	55.0	N	CTLA-772W-2	0015/0018/0041-02	0005-02
				SL	14 x 80	IG	55.0	55.0	N			
MA0126-02	X	O	36 x 96	1	36 x 96	O	70.0	70.0	N	CTLA-772W	0011-02	0001-02
MA0127-02	XX	O	72 x 96	1, 2	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0012-02	0002-02
MA0128-02	XO/OX	O	50 x 96	1	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0013/0016/0041-02	0003-02
				SL	14 x 96	IG	55.0	55.0	N			
MA0129-02	OXO	O	64 x 96	1	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0014/0017/0041-02	0004-02
				SL	14 x 96	IG	55.0	55.0	N			
MA0130-02	OXXO	O	100 x 96	1, 2	36 x 96	O	55.0	55.0	N	CTLA-772W-1	0015/0018/0041-02	0005-02
				SL	14 x 96	IG	55.0	55.0	N			

¹ O=opaque; IG=insulating glass with minimum 1/8" tempered glazing
² tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203

VERIFIED BY: Warnock Hersey
June 14, 2002

COP/MAD/MID sheets referenced in this matrix provides additional information – available from the Masonite website (www.masonite.com) or the Masonite technical center.

1

PREMDOR Collection Premium Quality Doors — Exclusively from Masonite® Masonite International Corporation

ITS Intertek Testing Services

Castlegate Entry Systems

COP/Test Report Validation Matrix
#3026447B-003

FIBERGLASS DOORS

COP# (WL-)	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type¹	+DP (psf)	-DP (psf)	Impact Appr'd	Ref. Test Reports²	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
MA0141-02	X	I	36 x 80	1	36 x 80	IG	52.0	52.0	N	CTLA-805W-2	0001/0041-02	0001-02
MA0142-02	XX	I	72 x 80	1, 2	36 x 80	IG	52.0	52.0	N	CTLA-805W-2	0002/0041-02	0002-02
MA0143-02	XO/OX	I	72 x 80	1	36 x 80	IG	52.0	52.0	N	CTLA-805W-2	0003/0006/0041-02	0003-02
				SL	36 x 80	IG	52.0	52.0	N			
MA0144-02	OXO	I	108 x 80	1	36 x 80	IG	52.0	52.0	N	CTLA-805W-2	0004/0007/0041-02	0004-02
				SL	36 x 80	IG	52.0	52.0	N			
MA0145-02	OXXO	I	144 x 80	1, 2	36 x 80	IG	52.0	52.0	N	CTLA-805W-2	0005/0008/0041-02	0005-02
				SL	36 x 80	IG	52.0	52.0	N			
MA0146-02	X	I	36 x 96	1	36 x 96	IG	40.0	40.0	N	CTLA-805W	0001/0041-02	0001-02
MA0147-02	XX	I	72 x 96	1, 2	36 x 96	IG	40.0	40.0	N	CTLA-805W	0002/0041-02	0002-02
MA0148-02	XO/OX	I	72 x 96	1	36 x 96	IG	40.0	40.0	N	CTLA-805W	0003/0006/0041-02	0003-02
				SL	36 x 96	IG	40.0	40.0	N			
MA0149-02	OXO	O	108 x 96	1	36 x 96	IG	40.0	40.0	N	CTLA-805W	0004/0007/0041-02	0004-02
				SL	36 x 96	IG	40.0	40.0	N			
MA0150-02	OXXO	I	144 x 96	1, 2	36 x 96	IG	40.0	40.0	N	CTLA-805W	0005/0007/0041-02	0005-02
				SL	36 x 96	IG	40.0	40.0	N			
MA0161-02	X	O	36 x 80	1	36 x 80	IG	55.0	55.0	N	CTLA-805W-2	0011/0041-02	0001-02
MA0162-02	XX	O	72 x 80	1, 2	36 x 80	IG	55.0	55.0	N	CTLA-805W-2	0012/0041-02	0002-02
MA0163-02	XO/OX	O	72 x 80	1	36 x 80	IG	55.0	55.0	N	CTLA-805W-2	0013/0016/0041-02	0003-02
				SL	36 x 80	IG	53.0	55.0	N			
MA0164-02	OXO	O	108 x 80	1	36 x 80	IG	55.0	55.0	N	CTLA-805W-2	0014/0017/0041-02	0004-02
				SL	36 x 80	IG	55.0	55.0	N			
MA0165-02	OXXO	O	144 x 80	1, 2	36 x 80	IG	55.0	55.0	N	CTLA-805W-2	0015/0018/0041-02	0005-02
				SL	36 x 80	IG	55.0	55.0	N			
MA0166-02	X	O	36 x 96	1	36 x 96	IG	47.0	47.0	N	CTLA-805W	0011/0041-02	0001-02
MA0167-02	XX	O	72 x 96	1, 2	36 x 96	IG	47.0	47.0	N	CTLA-805W	0012/0041-02	0002-02
MA0168-02	XO/OX	O	72 x 96	1	36 x 96	IG	47.0	47.0	N	CTLA-805W	0013/0016/0041-02	0003-02
				SL	36 x 96	IG	47.0	47.0	N			
MA0169-02	OXO	O	108 x 96	1	36 x 96	IG	47.0	47.0	N	CTLA-805W	0014/0017/0041-02	0004-02
				SL	36 x 96	IG	47.0	47.0	N			
MA0170-02	OXXO	O	144 x 96	1, 2	36 x 96	IG	47.0	47.0	N	CTLA-805W	0015/0018/0041-02	0005-02

¹ O=opaque; IG=insulating glass with minimum 1/8" tempered glazing
² tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203

VERIFIED BY: Warnock Hersey
June 14, 2002

COP/MAD/MID sheets referenced in this matrix provides additional information – available from the Masonite website (www.masonite.com) or the Masonite technical center.

2

PREMDOR Collection Premium Quality Doors — Exclusively from Masonite® Masonite International Corporation

ITS Intertek Testing Services

Castlegate Entry Systems

COP/Test Report Validation Matrix
#3026447B-001

WOOD-EDGE STEEL DOORS

COP# (WL-)	Frame Type	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type¹	+DP (psf)	-DP (psf)	Impact Appr'd	Ref. Test Reports² (NCTL-210-)	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
CA4101-02	wood	X	I	36 x 80	1	36 x 80	O	76.0	76.0	Y	1864 7-8	0001-02	0001-02
CA4102-02	wood	XX	I	72 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1905 10-12	0002-02	0002-02
CA4103-02	wood	XO/OX	I	50 x 80	1	36 x 80	O	67.0	67.0	Y	1880 7, 9	0003-02; 0006/0041-02	0003-02
					SL	14 x 80	IG	67.0	67.0	N			
CA4104-02	wood	OXO	I	108 x 80	1	36 x 80	O	67.0	67.0	Y	1880 7, 9; 1905 10-12	0004-02; 0007/0041-02	0004-02
					SL	14 x 80	IG	67.0	67.0	N			
					SL	36 x 80	IG	55.0	55.0	N			
CA4105-02	wood	OXXO	I	144 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1905 10-12	0005/0041-02	0005-02
					SL	36 x 80	IG	55.0	55.0	N			
CA4121-02	wood	X	O	36 x 80	1	36 x 80	O	76.0	76.0	Y	1861 10-12	0011-02	0001-02
CA4122-02	wood	XX	O	72 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1905 10-12	0012-02	0002-02
CA4123-02	wood	XO/OX	O	50 x 80	1	36 x 80	O	67.0	67.0	Y	1880 7, 9	0013-02 0016/0041-02	0003-02
					SL	14 x 80	IG	67.0	67.0	N			
CA4124-02	wood	OXO	O	108 x 80	1	36 x 80	O	67.0	67.0	Y	1905 10-12; 1880 7, 9	0014-02; 0017/0041-02	0004-02
					SL	14 x 80	IG	67.0	67.0	N			
					SL	36 x 80	IG	55.0	55.0	N			
CA4125-02	wood	OXXO	O	144 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1906 10-12	0015-02; 0018/0041-02	0005-02
					SL	36 x 80	IG	55.0	55.0	N			
CA4141-02	wood	X	I	36 x 80	1	36 x 80	IG	50.5	50.5	N	1897 10-12	0001/0041-02	0001-02
CA4142-02	wood	XX	I	72 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 10-12	0002/0041-02	0002-02
CA4143-02	wood	XO/OX	I	72 x 80	1	36 x 80	IG	50.5	50.5	N	1897 10-12	0003-02; 0006/0041-02	0003-02
					SL	36 x 80	IG	50.5	50.5	N			
CA4144-02	wood	OXO	I	108 x 80	1	36 x 80	IG	50.5	50.5	N	1897 10-12	0004-02; 0007/0041-02	0004-02
					SL	36 x 80	IG	50.5	50.5	N			
CA4145-02	wood	OXXO	I	144 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 10-12	0005-02; 0008/0041-02	0005-02
					SL	36 x 80	IG	50.5	50.5	N			

¹ O=opaque; IG=insulating glass with minimum 1/8" tempered glazing
² tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203

VERIFIED BY: Warnock Hersey
June 14, 2002

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1

PREMDOR Collection Premium Quality Doors — Exclusively from Masonite® Masonite International Corporation

ITS Intertek Testing Services

Castlegate Entry Systems

COP/Test Report Validation Matrix
#3026447B-001

WOOD-EDGE STEEL DOORS

COP# (WL-)	Frame Type	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type¹	+DP (psf)	-DP (psf)	Impact Appr'd	Ref. Test Reports² (NCTL-210-)	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
CA4161-02	wood	X	O	36 x 80	1	36 x 80	IG	50.5	50.5	N	1897 10-12	0011/0041-02	0001-02
CA4162-02	wood	XX	O	72 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 10-12	0012/0041-02	0002-02
CA4163-02	wood	XO/OX	O	72 x 80	1	36 x 80	IG	50.5	50.5	N	1897 10-12	0013-02; 0016/0041-02	0003-02
					SL	36 x 80	IG	50.5	50.5	N			
CA4164-02	wood	OXO	O	108 x 80	1	36 x 80	IG	50.5	50.5	N	1897 10-12	0014-02; 0017/0041-02	0004-02
					SL	36 x 80	IG	50.5	50.5	N			
CA4165-02	wood	OXXO	O	144 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 10-12	0025/0041-02	0005-02
					SL	36 x 80	IG	50.5	50.5	N			

¹ O=opaque; IG=insulating glass with minimum 1/8" tempered glazing
² tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203

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June 14, 2002

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2

PREMDOR Collection Premium Quality Doors — Exclusively from Masonite® Masonite International Corporation

ITS Intertek Testing Services

Castlegate Entry Systems

COP/Test Report Validation Matrix
#3026447B-002

METAL-EDGE STEEL DOORS

COP# (WL-)	Frame Type	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type¹	+DP (psf)	-DP (psf)	Impact Appr'd	Ref. Test Reports² (NCTL-210-)	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
CA3101-02	wood	X	I	36 x 80	1	36 x 80	O	80.0	80.0	Y	1864 1, 2	0001-02	0001-02
CA3102-02	wood	XX	I	72 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1905 1-2	0002-02	0002-02
CA3103-02	wood	XO/OX	I	50 x 80	1	36 x 80	O	76.0	76.0	Y	1880 1-3	0003-02; 0006/0041-02	0003-02
					SL	14 x 80	IG	76.0	76.0	N			
CA3104-02	wood	OXO	I	108 x 80	1	30 x 80	O	76.0	76.0	Y	1905 1-3; 1880 1-3	0004-02; 0007/0041-02	0004-02
					SL	14 x 80	IG	76.0	76.0	N			
					SL	36 x 80	IG	55.0	55.0	N			
CA3105-02	wood	OXXO	I	144 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1905 1-3	0005-02; 0008/0041-02	0005-02
					SL	36 x 80	IG	55.0	55.0	N			
CA3106-02	wood	X	I	36 x 96	1	36 x 96	O	48.3	48.3	Y	1980 1-3	0001-02	0001-02
CA3107-02	wood	XX	I	72 x 96	1, 2	36 x 96	O	48.3	48.3	Y	1980 1-3	0002-02	0002-02
CA3108-02	wood	XO/OX	I	72 x 96	1	36 x 96	O	48.3	48.3	Y	1980 1-3	0003-02 0016/0041-02	0003-02
					SL	36 x 96	IG	48.3	48.3	N			
CA3109-02	wood	OXO	I	108 x 96	1	36 x 96	O	48.3	48.3	Y	1980 1-3	0004-02; 0007/0041-02	0004-02
					SL	36 x 96	IG	48.3	48.3	N			
CA3110-02	wood	OXXO	I	144 x 96	1, 2	36 x 96	O	48.3	48.3	Y	1980 1-3	0005-02;	0005-02
					SL	36 x 80	IG	48.3	48.3	N			
CA3121-02	wood	X	O	36 x 80	1	36 x 80	O	80.0	80.0	Y	1861 1-3	0011-02	0001-02
CA3122-02	wood	XX	O	72 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1905 1-3	0012-02	0002-02
CA3123-02	wood	XO/OX	O	50 x 80	1	36 x 80	O	76.0	76.0	Y	1880 1-3	0013-02; 0016/0014-02	0003-02
					SL	14 x 80	IG	76.0	76.0	N			
CA3124-02	wood	OXO	O	108 x 80	1	36 x 80	O	76.0	76.0	Y	1880 1-3; 1905 1-3	0014-02; 0017/0041-02	0004-02
					SL	14 x 80	IG	76.0	76.0	N			
					SL	36 x 80	IG	55.0	55.0	N			
CA3125-02	wood	OXXO	O	144 x 80	1, 2	36 x 80	O	55.0	55.0	Y	1905 1-3	0015-02; 0018/0041-02	0005-02
					SL	36 x 80	IG	55.0	55.0	N			
CA3126-02	wood	X	O	36 x 96	1	36 x 96	O	48.3	48.3	Y	1980 1-3	0011-02	0001-02
CA3127-02	wood	XX	O	72 x 96	1, 2	36 x 96	O	48.3	48.3	Y	1980 1-3	0012-02	0002-02

¹ O=opaque; IG=insulating glass with minimum 1/8" tempered glazing
² tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203

VERIFIED BY: Warnock Hersey
June 14, 2002

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1

PREMDOR Collection Premium Quality Doors — Exclusively from Masonite® Masonite International Corporation

ITS Intertek Testing Services

Castlegate Entry Systems

COP/Test Report Validation Matrix
#3026447B-002

METAL-EDGE STEEL DOORS

COP# (WL-)	Frame Type	Config.	Swing (I/O)	Max. Overall Size (ins.)	Leaf#	Nominal Max. Leaf Size (ins.)	Glazing Type¹	+DP (psf)	-DP (psf)	Impact Appr'd	Ref. Test Reports² (NCTL-210-)	Ass'y Detail (MAD-WL-MA)	Intall Detail (MID-WL-MA)
CA3128-02	wood	XO/OX	O	72 x 96	1	36 x 96	O	48.3	48.3	Y	1980 1-3	0013-02; 0016/0041-02	0003-02
					SL	36 x 96	IG	48.3	48.3	N			
CA3129-02	wood	OXO	O	108 x 96	1	36 x 96	O	48.3	48.3	Y	1980 1-3	0014-02; 0017/0041-02	0004-02
					SL	36 x 96	IG	48.3	48.3	N			
CA3130-02	wood	OXXO	O	144 x 96	1, 2	36 x 96	O	48.3	48.3	Y	1980 1-3	0015-02; 0018/0041-02	0005-02
					SL	36 x 96	IG	48.3	48.3	N			
CA3141-02	wood	X	I	36 x 80	1	36 x 80	IG	50.5	50.5	N	1897 1-3	0001/0041-02	0001-02
CA3142-02	wood	XX	I	72 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 1-3	0002/0041-02	0002-02
CA3143-02	wood	XO/OX	I	72 x 80	1	36 x 80	IG	50.5	50.5	N	1897 1-3	0003-02; 0006/0041-02	0003-02
					SL	30 x 80	IG	50.5	50.5	N			
CA3144-02	wood	OXO	I	108 x 80	1	36 x 80	IG	50.5	50.5	N	1897 1-3	0004-02; 0007/0041-02	0004-02
					SL	36 x 80	IG	50.5	50.5	N			
CA3145-02	wood	OXXO	I	144 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 1-3	0005-02; 0008/0041-02	0005-02
					SL	36 x 80	IG	50.5	50.5	N			
CA3146-02	wood	X	I	36 x 96	1	36 x 96	IG	43.0	45.0	N	1887 1-3, 7-9	0001/0041-02	0001-02
CA3147-02	wood	XX	I	72 x 96	1, 2	36 x 96	IG	43.0	45.0	N	1887 1-3, 7-9	0002/0041-02	0002-02
CA3161-02	wood	X	O	36 x 80	1	36 x 80	IG	50.5	50.5	N	1897 1-3	0011/0041-02	0001-02
CA3162-02	wood	XX	O	72 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 1-3	0012/0041-02	0002-02
CA3163-02	wood	XO/OX	O	72 x 80	1	36 x 80	IG	50.5	50.5	N	1897 1-3	0013-02; 0016/0041-02	0003-02
					SL	36 x 80	IG	50.5	50.5	N			
CA3164-02	wood	OXO	O	108 x 80	1	36 x 80	IG	50.5	50.5	N	1897 1-3	0014-02; 0017/0041-02	0004-02
					SL	36 x 80	IG	50.5	50.5	N			
CA3165-02	wood	OXXO	O	144 x 80	1, 2	36 x 80	IG	50.5	50.5	N	1897 1-3	0015-02; 0018/0041-02	0005-02
					SL	36 x 80	IG	50.5	50.5	N			
CA3166-02	wood	X	O	36 x 96	1	36 x 96	IG	43.0	45.0	N	1887 1-3, 7-9	0011-02	0001-02
CA3167-02	wood	XX	O	72 x 96	1, 2	36 x 96	IG	43.0	45.0	N	1887 1-3, 7-9	0012/0041-02	0002-02

¹ O=opaque; IG=insulating glass with minimum 1/8" tempered glazing
² tested in accordance with Metro-Dade Protocols PA201, PA202 and PA203

VERIFIED BY: Warnock Hersey
June 14, 2002

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2

PREMDOR Collection Premium Quality Doors — Exclusively from Masonite® Masonite International Corporation

ITS Intertek Testing Services

TYPICAL DETAILS

THE DETAILS CONTAINED ON THIS PAGE ILLUSTRATE THE TYPICAL USE OF MATERIALS IN THE ASSEMBLY OF SOUTHLAND LOG HOME MATERIAL PACKAGES. ONE OR MORE OF THESE DETAILS MAY NOT APPLY TO ANY ONE SPECIFIC PROJECT. YOUR CONTRACT PRICE QUOTE, AND THE INFORMATION PRESENTED IN YOUR PLANS TAKE PRECEDENCE OVER SPECIFICATIONS SHOWN HERE.

IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

WARNING!

This Southland Log Home package has been designed according to the purchase contract and applicable building codes and must be constructed in accordance with these plans. All unauthorized deviations become the responsibility of the owner as it may result in unsafe conditions, structural concerns, violate building codes and will void the warranty on this product.

LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL:	CUSTOM
DESIGNED BY:	MRL
CHECKED BY:	AJJ
PLAN DATE:	01/17/06
DELIVERY DATE:	03/28/06

0603673
PROJECT NUMBER

6.7
SHEET NUMBER

PREMDOR

DP-50

Builders FirstSource

PREMDOR

DP-50

Builders FirstSource

PREMDOR

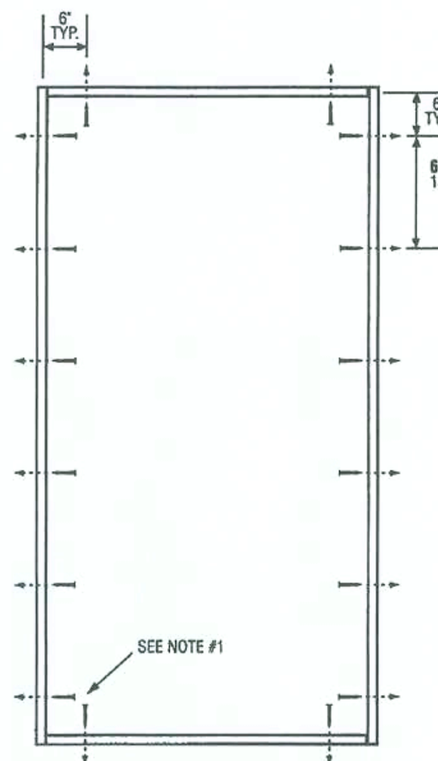
DP-50

Builders FirstSource

X
Unit

MID-WL-MA0001-02

SINGLE DOOR



Minimum Fastener Count
- 6 per vertical framing member
- 2 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)
- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Warnock Hersey Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etisemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0246*, 0266*, 3241*, 3246, 3261* or 3266**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons. Threshold fasteners analyzed for this unit include #8 and #10 wood screws, 3/16" Tapcons, or Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

1

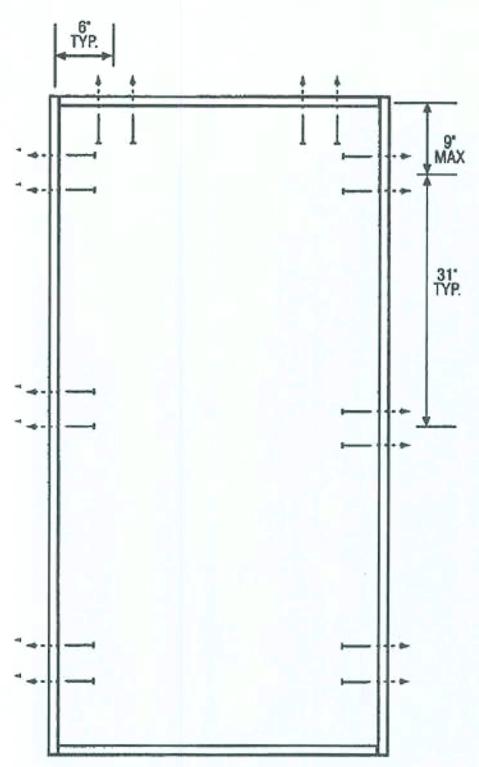
March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

X
Unit

MID-WL-MA0001-02

SINGLE DOOR



Minimum Fastener Count
- 6 per vertical framing member for 7'0" height and smaller
- 8 per vertical framing member for heights greater than 7'0"
- 4 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)
- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Warnock Hersey Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0246*, 0266*, 3241*, 3246, 3261* or 3266**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

1. Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The common nail single shear design values come from ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

2

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

PREMDOR® ENTRY SYSTEMS

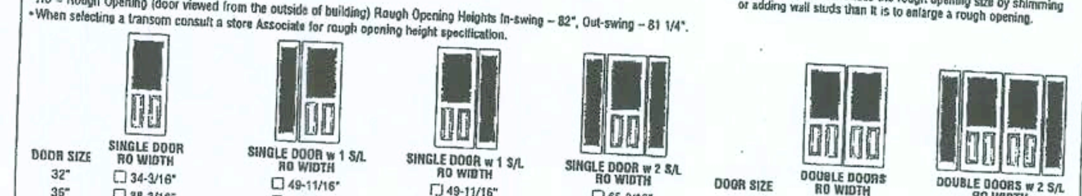
Installation Instructions for Pre-hung Units

"Premdor Entry Systems are designed for easy installation. Just follow these step-by-step instructions."

IMPORTANT: Read and understand the entire procedure before attempting to install a door. Use of dark colors and non-venting storm doors are not recommended for Premdor doors equipped with plastic glass insert frames and can void the warranty on the glass insert and doors. Observing this precaution will help reduce heat build-up between the door and storm door.

STEP 1. SELECT DOOR AND SIDELITE COMBINATIONS

- All doors pictured assume you are standing on the outside of the building.
- Door sizes used for this form are: 32" x 80" and 36" x 80".
- Rough openings are calculated using 14" wide sidelites. Deduct 2" from the rough opening width for each 12" sidelite or deduct 3-3/4" from RO width for each 10" sidelite.
- Rough opening width is measured from the inside of the stud frame to the inside of the opposite stud. Do not measure from gyproc, molding, or casings.
- Rough opening height is measured from the floor to the bottom of the header (top of rough opening). Rough opening height required is 82" for all doors which open in, and 81 1/4" for doors which open out.
- Rough opening size allows 1/4" shim space on each side of the door.
- To measure the rough opening on a door that is being replaced, remove interior casings to ensure accurate measurements from stud to stud and from floor to header.
- Note: It is easier to reduce the rough opening size by shimming or adding wall studs than it is to enlarge a rough opening.
- RO = Rough Opening (door viewed from the outside of building) Rough Opening Heights In-swing – 82", Out-swing – 81 1/4".
- When selecting a transom consult a store Associate for rough opening height specification.



DOOR SIZE	SINGLE DOOR RO WIDTH	SINGLE DOOR w 1 S/L RO WIDTH	SINGLE DOOR w 1 S/L RO WIDTH	SINGLE DOOR w 2 S/L RO WIDTH
32"	☐ 34-3/16"	☐ 49-11/16"	☐ 49-11/16"	☐ 65-3/16"
36"	☐ 38-3/16"	☐ 53-11/16"	☐ 53-11/16"	☐ 69-3/16"

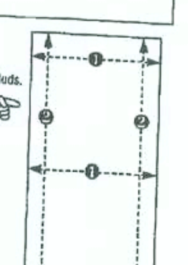
DOOR SIZE	DOUBLE DOORS RO WIDTH	DOUBLE DOORS w 2 S/L RO WIDTH
64"	☐ 66-3/4"	☐ 97-3/4"
72"	☐ 74-3/4"	☐ 105-3/4"

NOTE: Rough openings shown for 14" sidelites. For 12" sidelites deduct 2" for each sidelite. For 10" sidelites deduct 3-3/4" for each sidelite. For rough openings for doors with transoms, please see a Home Depot Associate.

STEP 2. DETERMINE DOOR FRAME SIZE

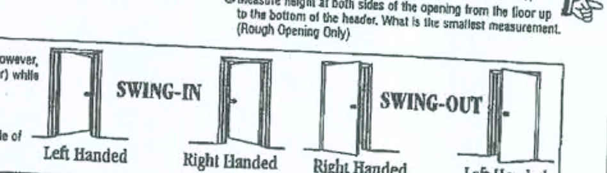
- 2" x 4" or 2" x 6" construction simply refers to the width of lumber used to frame the rough opening.
- Jamb is wider than framing lumber to allow the jamb to overlap the wallboard, panelling, siding etc.
- Brickmold covers the gap between the rough opening and the door jamb on the exterior wall and door casing should be applied on the interior.

How to measure for your new Premdor Entry System
1. Measure width at top, center, and bottom of opening between the studs. What is the smallest measurement. (Rough Opening Only)
2. Measure height at both sides of the opening from the floor up to the bottom of the header. What is the smallest measurement. (Rough Opening Only)



STEP 3. DETERMINE DOOR SWING

- All double door systems allow for both doors to open. However, during normal usage one door is stationary (inactive door) while the other door opens and closes (active door).
- Out-swing units supplied with a bumper type threshold.
- All doors pictured assume you are standing on the outside of the building.



STEP 4. TOOLS AND SUPPLIES

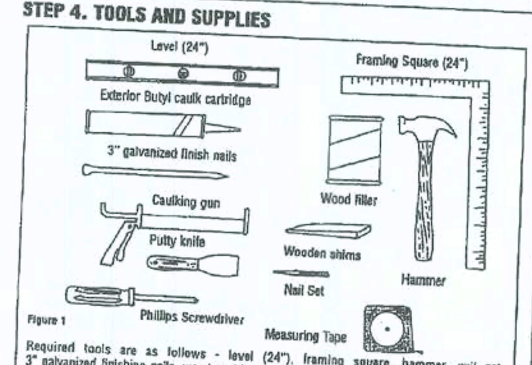
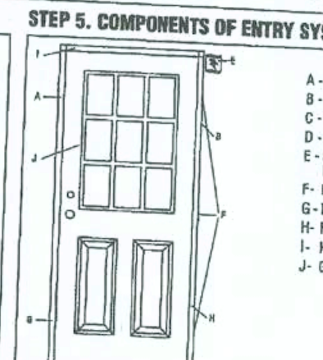


Figure 1

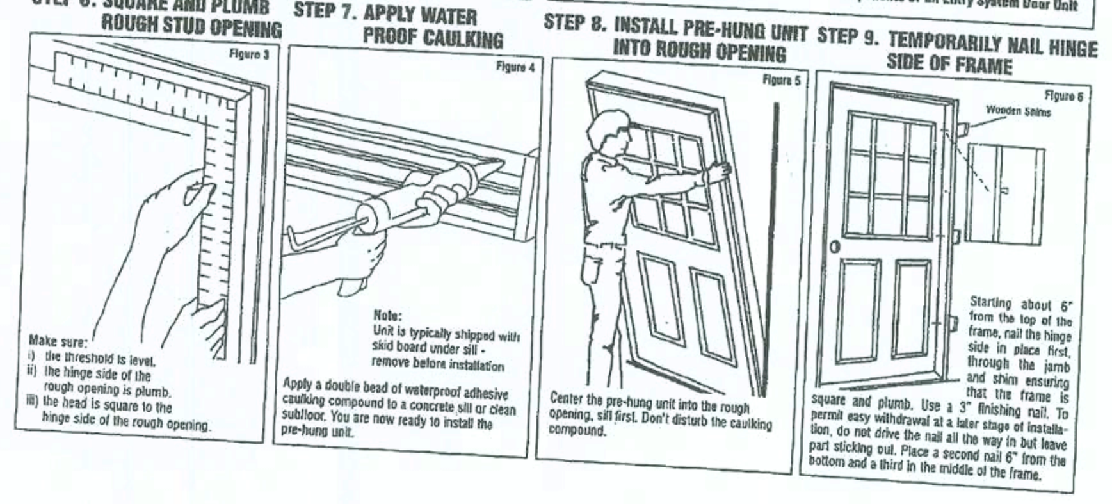
Required tools are as follows - level (24"), framing square, hammer, nail set, 3" galvanized finishing nails, wooden shims, wood filler, putty knife, caulking gun, exterior caulk, measuring tape and phillips screwdriver.

STEP 5. COMPONENTS OF ENTRY SYSTEM DOOR UNIT



A - Finger Jointed Pine Jamb
B - Compression Weatherstripping
C - Thermally Broken Sill
D - Door Sweep (installed)
E - Screw Bag and Installation Instructions
F - Hinges (3)
G - Lock Side Jamb
H - Hinge Side Jamb
I - Header
J - Glass Insert

Figure 2 Components of an Entry System Door Unit



STEP 6. SQUARE AND PLUMB ROUGH STUD OPENING (Figure 3)

Make sure:
i) the threshold is level.
ii) the hinge side of the rough opening is plumb.
iii) the head is square to the hinge side of the rough opening.

STEP 7. APPLY WATER PROOF CAULKING (Figure 4)

Note: Unit is typically shipped with skid board under sill - remove before installation

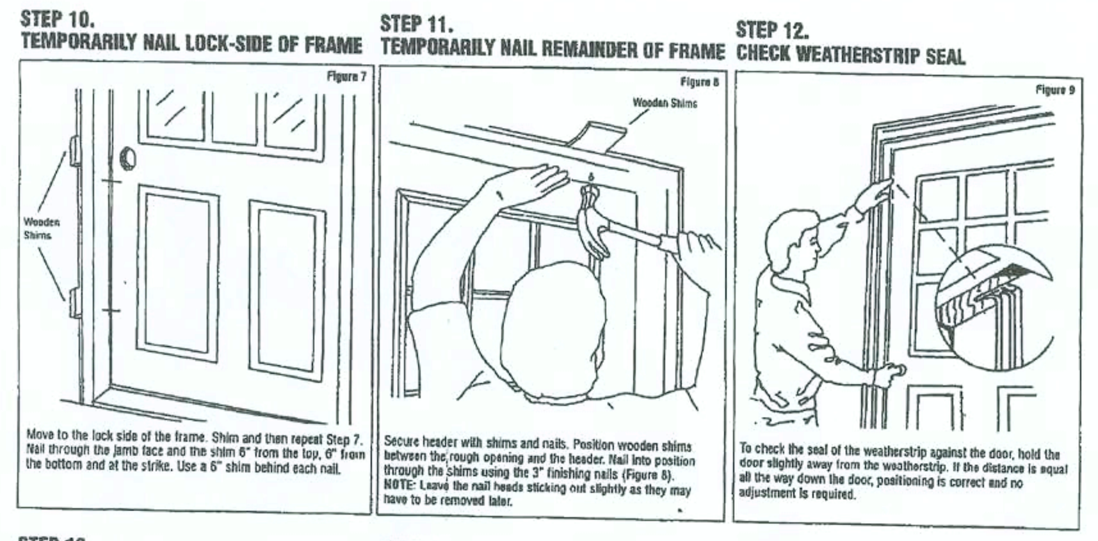
Apply a double bead of waterproof adhesive caulking compound to a concrete sill or clean subfloor. You are now ready to install the pre-hung unit.

STEP 8. INSTALL PRE-HUNG UNIT INTO ROUGH OPENING (Figure 5)

Center the pre-hung unit into the rough opening, sill first. Don't disturb the caulking compound.

STEP 9. TEMPORARILY NAIL HINGE SIDE OF FRAME (Figure 6)

Starting about 6" from the top of the frame, nail the hinge side in place first, through the jamb and shim ensuring that the frame is square and plumb. Use a 3" finishing nail. To permit easy withdrawal at a later stage of installation, do not drive the nail all the way in but leave part sticking out. Place a second nail 6" from the bottom and a third in the middle of the frame.



STEP 10. TEMPORARILY NAIL LOCK-SIDE OF FRAME (Figure 7)

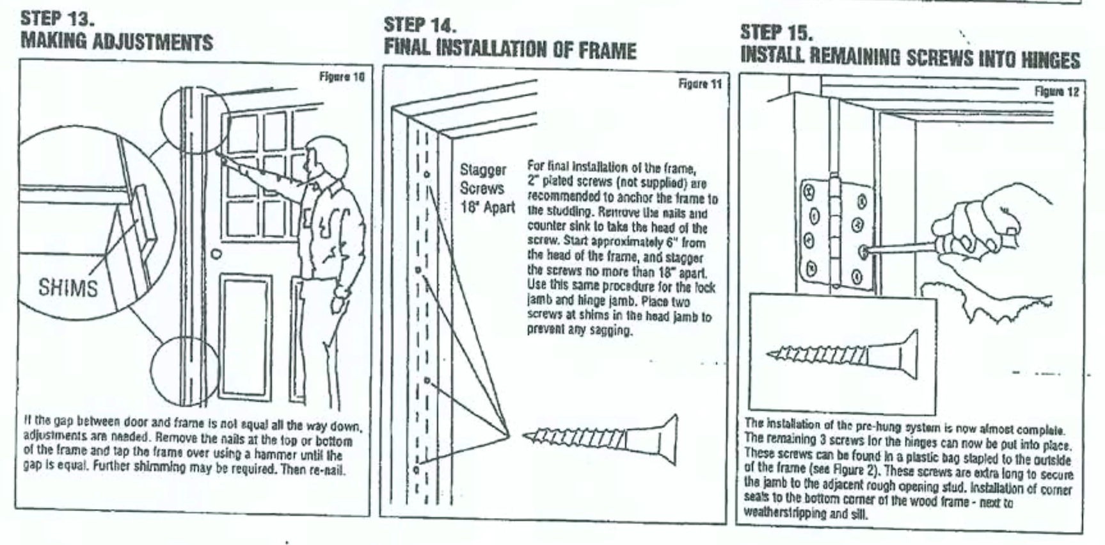
Move to the lock side of the frame. Shim and then repeat Step 7. Nail through the jamb face and the shim 6" from the top, 6" from the bottom and at the strike. Use a 6" shim behind each nail.

STEP 11. TEMPORARILY NAIL REMAINDER OF FRAME (Figure 8)

Secure header with shims and nails. Position wooden shims between the rough opening and the header. Nail into position through the shims using the 3" finishing nails (Figure 8). NOTE: Leave the nail heads sticking out slightly as they may have to be removed later.

STEP 12. CHECK WEATHERSTRIP SEAL (Figure 9)

To check the seal of the weatherstrip against the door, hold the door slightly away from the weatherstrip. If the distance is equal all the way down the door, positioning is correct and no adjustment is required.



STEP 13. MAKING ADJUSTMENTS (Figure 10)

If the gap between door and frame is not equal all the way down, adjustments are needed. Remove the nails at the top or bottom of the frame and tap the frame over using a hammer until the gap is equal. Further shimming may be required. Then re-nail.

STEP 14. FINAL INSTALLATION OF FRAME (Figure 11)

Stagger Screws 18" Apart

For final installation of the frame, 2" plated screws (not supplied) are recommended to anchor the frame to the studding. Remove the nails and counter sink to take the head of the screw. Start approximately 6" from the head of the frame, and stagger the screws no more than 18" apart. Use this same procedure for the lock jamb and hinge jamb. Place two screws at shims in the head jamb to prevent any sagging.

STEP 15. INSTALL REMAINING SCREWS INTO HINGES (Figure 12)

The installation of the pre-hung system is now almost complete. The remaining 3 screws for the hinges can now be put into place. These screws can be found in a plastic bag stapled to the outside of the frame (see Figure 2). These screws are extra long to secure the jamb to the adjacent rough opening stud. Installation of corner seals to the bottom corner of the wood frame - next to weatherstripping and sill.

STEP 16. FINAL FINISHING AND PAINTING

Use exterior grade caulking to seal around entire perimeter of door frame on the exterior wall and along the exterior nosing of the sill and building structure. Interior door casing should be installed around the door(s), covering the gap between the door frame and rough opening studs. You may want to consider filling this gap with loosely stuffed fiberglass insulation for an extra measure of insulation. Apply a bead of interior grade caulking around the door casing and wall and along the threshold and floor. Premdor doors have a factory applied coat of primer. Further prime painting is not recommended. Before applying a finish paint, scuff sand surface lightly with fine sandpaper and make sure door surfaces are thoroughly cleaned. Finish painting the outside of the door with a high quality exterior sash and trim latex or enamel paint. Use a high quality latex or enamel paint for the interior finish. Use of dark colors and non-venting storm doors are not recommended for Premdor doors equipped with plastic glass insert frames and can void the warranty on the glass insert and doors. Observing this precaution will help reduce heat build-up between the door and storm door.
Note : *Do not use alkyd paints.*

WARRANTIES

Please refer to detailed warranty that comes attached to each Premdor Entry System.

PREMDOR Pinnacle Fiberglass ENTRY SYSTEMS — PREMDOR Ultimate Steel ENTRY SYSTEMS — PREMDOR Endurance Steel ENTRY SYSTEMS — PREMDOR Primary Steel ENTRY SYSTEMS

PREMDOR®

Premdor Helpline : 800-663-DOOR • (800-663-3667)
Hours: 9:00 am - 9:00 pm (EST) Monday - Saturday
10:00 am - 4:00 pm (EST) Sunday
E-mail : marketing@premdor.com • website : www.premdor.com

2000800.3/99

Florida Building Code Approvals						
Size	Type	Product	Florida Product Approval Number	Product Model	Manufacturer	Product Design Pressure (psf)
20x32	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
20x32	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
20x310	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
20x310	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
20x46	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
20x46	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
20x52	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
20x52	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x32	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x32	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x310	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x310	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x46	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x46	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x46	triple	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x52	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x52	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x52	triple	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x56	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x56	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x62	single	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x62	twin	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
30x62	triple	Double Hung	FL2306.1	Clad Challenger II	BiltBest Windows and Patio Doors	+50.0/ -50.0
2842	single	Casement	FL3675.1	Spirit E-Clad 28x60	BiltBest Windows and Patio Doors	+50.0/ -50.0
2842	twin	Casement	FL3675.1	Spirit E-Clad 28x60	BiltBest Windows and Patio Doors	+50.0/ -50.0
3142	single	Casement	FL385.1	Spirit E-Clad 32x70	BiltBest Windows and Patio Doors	+40.0/-40.0
3142	twin	Casement	FL385.1	Spirit E-Clad 32x70	BiltBest Windows and Patio Doors	+40.0/-40.0
4854	single	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
24x24	octagon	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
3618	half round	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
7236	half round	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
36x36	triangle	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
72x72	triangle	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
36x24x60	trapezoid	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
72x24x96	trapezoid	Fixed	FL3676.1	Spitit E-Clad DH/CASE	BiltBest Windows and Patio Doors	+40.0/-40.0
30x68	single	Inswing	FL20.1	Fiberglass Door	Masonite International	+50.0/ -50.0
30x68	single	Inswing	FL18.1	Wood-Edge Steel Door	Masonite International	+50.0/ -50.0
60x68	twin	Sliding Wood	FL4036.5	#415 French Sliding Door 71"x83" SGD-R40	SNE Enterprises (WeatherShield)	+40.0/-40.0
60x68	twin	Side-Hinged Fiberglass	FL4085.2	6'-8" Glazed Units (X,XX,OX,XO,OXO,OXXO)	Masonite International	+60.0/ -60.0
15#	asphalt sat.	Roofing Felt	FL1814.1	#15 ASTM 4869	Woodland Industries Inc.	slopes < 2:12
15#	asphalt sat.	Roofing Felt	FL1814.2	#15 ASTM D-22 TYPE I	Woodland Industries Inc.	slopes < 2:12
30#	asphalt sat.	Roofing Felt	FL1814.3	#30 ASTM 4869	Woodland Industries Inc.	slopes < 2:12
30#	asphalt sat.	Roofing Felt	FL1814.4	#30 ASTM D-22 TYPE II	Woodland Industries Inc.	slopes < 2:12
RT12	RT12	Rafter Tie	FL572.2	Rafter Tie Strap	United Steel Products Company	Miami-Dade

TYPICAL DETAILS

THE DETAILS CONTAINED ON THIS PAGE ILLUSTRATE THE TYPICAL USE OF MATERIALS IN THE ASSEMBLY OF SOUTHLAND LOG HOME MATERIAL PACKAGES. ONE OR MORE OF THESE DETAILS MAY NOT APPLY TO ANY ONE SPECIFIC PROJECT. YOUR CONTRACT PRICE QUOTE, AND THE INFORMATION PRESENTED IN YOUR PLANS TAKE PRECEDENCE OVER SPECIFICATIONS SHOWN HERE.

IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

WARNING!

This Southland Log Home package has been designed according to the purchase contract and applicable building codes and must be constructed in accordance with these plans. All unauthorized deviations become the responsibility of the owner as it may result in unsafe conditions, structural concerns, violate building codes and will void the warranty on this product.

LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

6.8
SHEET NUMBER

MID AMERICA TESTING LABORATORY, INC.
10525 SIGNAL HILL DRIVE · CATAWISSA, MISSOURI 63015
(636) 257-4722 · FAX (636) 257-5425

WINDOW MANUFACTURER:	Bilt Best Windows 175 Tenth St. Genevieve, Missouri 63670
MODEL NUMBER:	Clad Challenger II Double Hung
PERFORMANCE CLASS:	H-LC50 (with clips)
JOB NUMBER:	01063W
DATE OF REPORT:	September 17, 2001
LOCATION OF TESTING:	Mid America Testing Laboratory
DATE OF TESTING:	June 6 – 15, 2001
EXPERATION DATE:	June 15, 2005

All tests were conducted in accordance with the testing procedures outlined in AAMA/NWWDA 101/I.S.2-97 and applicable ASTM standards.

The following were present for all or portions of the laboratory testing.

Mr. Fred Gegg	Bilt Best Windows
Mr. John Sutterer	Bilt Best Windows
Mr. Travis Swisshelm	Mid America Testing Laboratory
Mr. Rick Heitmann	Mid America Testing Laboratory

UNIT DESCRIPTION

The Clad Challenger II Double Hung window unit, manufactured by Bilt Best, was installed onto the lexan test wall by laboratory personnel for purposes of weatherization and structural testing. The overall frame had a dimension of 3'-15/16" wide X 6'-5 13/64" tall. The operable sash measured a nominal 2'-10 5/8" wide X 3'-1 7/16" tall.

The unit was glazed with a nominal 5/8" insulated, 1/8 – 1/8 clear annealed glass. The glass was channel glazed with a butyl seal on the interior and capped with a silicone sealant on the exterior.

The sash sill was weathered with a dual line of gaskets along with foam pads. The outer most gasket was a foam filled bulb gasket while the interior was a foam filled wipe type bulb gasket. The sash frame was weathered with fin wool pile gaskets.

The meeting rail weathering was accomplished with a bulb gasket at the rail with fin wool pile weathering on the jamb. The primary frame gaskets were also fin wool pile creating a dual weather line for the sash as well.

The sash was operated by a pair of jamb liner balance assemblies. The sash was locked by a pair of sweep locks located at quarter points of the meeting rail.

The window construction consisted of square cut and coped corners. The frame corners were fastened with staples, while the sash corners were fastened with 1 ¼ Phillip pan head fasteners. All corners joints were sealed with sealant.

The unit was attached into the wood buck with a total of seven (7) fasteners per jamb. The fasteners were located 6" from the head and sill and then a nominal 12" on center. One additional fastener was attached at the horizontal meeting rail location.

FORMAL TESTING

Tests were conducted on the 3'-15/16" wide X 6'-5 13/64" tall Clad Challenger II Double Hung with structural support clips provided by Bilt Best Window and installed onto the test wall by laboratory personnel. Tests were conducted in substantial accordance with the test procedures outlined and described below utilizing the applicable AAMA/NWWDA and ASTM standards.

1. **2.2.2.5.1 OPERATING FORCE** (AAMA/NWWDA 101/I.S.2-97)

ALLOWED:	35 pounds
RESULTS:	28 pounds

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

2. **2.1.2 AIR INFILTRATION TEST** (ASTM E 283) at 1.57 PSF (25 MPH and .3" H_2O)

ALLOWED:	Air infiltration shall not exceed .3 CFM per square foot of frame area.
RESULTS:	The air infiltration did not exceed the allowed .3 CFM per square foot of frame area. The actual leakage was .19 CFM per square foot.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 283.

3. **2.1.3 WATER RESISTANCE TEST** (ASTM E 331) at 4.0 PSF (40 MPH and .76" H_2O)

ALLOWED:	No uncontrolled water infiltration to the room side.
RESULTS:	No uncontrolled water infiltration to the room side.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 331.

3a. **2.1.3 WATER RESISTANCE TEST** (ASTM E 331) at 7.5 PSF (40 MPH and .76" H_2O)

ALLOWED:	No uncontrolled water infiltration to the room side.
RESULTS:	No uncontrolled water infiltration to the room side.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 331.

4. **2.1.4.2 UNIFORM LOAD STRUCTURAL TEST** (ASTM E 330) at 1.5 times design load for ten (10) seconds duration in both directions. Deflections and permanent sets were measured at 1.5 times only.

+50.0 PSF (75% Positive Design Load) to remove slack
+75.0 PSF (150% Positive Design Load)
–50.0 PSF (75% Negative Design Load) to remove slack
–75.0 PSF (150% Negative Design Load)

ALLOWED:	Permanent set of framing members shall not exceed 4/1000 of the span length. There shall be no failure of the system.
RESULTS:	No member exceeded the maximum permanent set and there was no failure of the system.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 330.

5. **2.1.8 FORCED ENTRY TEST** (ASTM F 588) Performance Grade 10

	TEST TITLE	ALLOWED	RESULT
10.1.1.1	Lock manipulation for 5 minutes	No entry	No entry
10.1.1.2	Lock manipulation for 5 minutes	No entry	No entry
10.2.1.1	Static load test at 150 pounds	No entry	No entry
10.2.1.2	Static load test at 75 pounds.	No entry	No entry
10.2.1.3	Static load test at 75 pounds.	No entry	No entry
10.2.1.4	Static load test at 75 pounds.	No entry	No entry

10.2.1.5	Static load test at 75 pounds.	No entry	No entry
10.2.1.7	Static load test at 75 pounds.	No entry	No entry
10.2.1.8	Lock manipulation for 5 minutes	No entry	No entry

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM F 588.

6. **2.2.1.6.2 DEGLAZING TEST** (ASTM E 987)

ALLOWED:	.437" (the original glass bite) when the horizontal sash member is subjected to a 70 lbf load.
RESULTS:	.340" when subjected to the 70 lbf load.
ALLOWED:	.437" (the original glass bite) when the vertical sash member is subjected to a 50 lbf load.
RESULTS:	.290" when subjected to the 50 lbf load.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 987.

SUMMARY

The Bilt Best Clad Challenger II Double Hung window unit as described in this report has met or exceeded applicable test criteria set forth in AAMA/NWWDA 101/I.S.2-97 for a performance class of H-LC50.

This report or any portions thereof is valid for a period not to exceed four years and may not be reproduced by anyone or forwarded to anyone without written consent of Mid America

Testing Laboratory. Participants referenced in the test report are welcome to a copy of this test report if so desired by the laboratory's client.

Respectfully submitted,

MID AMERICA TESTING LABORATORY

Rick A. Heitmann
President

RAH/slh
01063WTR2

Wesley R. Godwin, P.E.

WESLEY RANDOLPH GODWIN CERTIFICATE 0049137 ★ STATE OF FLORIDA REGISTERED ENGINEER

MID AMERICA TESTING LABORATORY, INC.
10525 SIGNAL HILL DRIVE · CATAWISSA, MISSOURI 63015
(636) 257-4722 · FAX (636) 257-5425

WINDOW MANUFACTURER:	Bilt Best Windows 175 Tenth St. Genevieve, Missouri 63670
MODEL NAME:	Series Spirit "E" P.O. Casement
PERFORMANCE CLASS:	C-HC40 32 5/8 X 70 3/4
JOB NUMBER:	20088W
DATE OF REPORT:	April 28, 2000
LOCATION OF TESTING:	Mid America Testing Laboratory
DATE OF TESTING:	April 27, 2000
EXPIRATION DATE:	April 27, 2004

All tests were conducted in accordance with procedures outlined in AAMA/NWWDA 101/I.S.2-97 and applicable ASTM standards.

The following were present for all or portions of the laboratory testing.

Mr. Tim Meyer	Bilt Best Windows
Mr. Gene Keeton	Mid America Testing Laboratory
Mr. Rick Heitmann	Mid America Testing Laboratory

UNIT DESCRIPTION

The Series Spirit "E" aluminum clad wood project out casement manufactured by Bilt Best was installed onto a test wall by laboratory personnel for purposes of weatherization and structural testing. The overall frame had a dimension of 32 5/8" wide X 70 3/4" tall. The sash size was 30 3/4" wide X 68 7/8" tall

The unit was glazed with a nominal 5/8" insulated 1/8" – 1/8" clear annealed glass. The glazing was interior set with a bed seal at the exterior and removable wood beads at the interior fastened with #6 wood screws at 10" on center.

The sash perimeter was weathered with one (1) row of bulb gasket at the exterior and one (1) row of sweep gaskets at the exterior.

Two (2) cam locks located at 19 1/2" from the head and sill locked the sash. The sash was hinged on Truth two (2) bar hinges. A truth roto operator located at the sill operated the sash.

The frame and sash construction consisted of a square cut and coped wood corners at the interior and mitered corner joints at the exterior. The exterior aluminum joints were sealed with silicone sealant.

FORMAL TESTING

Tests were conducted on the 32 5/8" wide X 70 3/4" tall project out casement window provided by Bilt Best and installed onto the test wall by laboratory personnel. Tests were conducted in substantial accordance with the test procedures outlined and described below utilizing the applicable AAMA and ASTM standards.

1. **2.1.2 AIR INFILTRATION TEST** (ASTM E 283) at 6.24 PSF (50.0 MPH and 1.2" H_2O).

ALLOWED:	Air infiltration shall not exceed .3 CFM per square foot.
RESULTS:	.14 CFM per square foot.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 283.

2. **2.1.3 WATER RESISTANCE TEST** (ASTM E 547) at 6.0 PSF (49.0 MPH and 1.15" H_2O)

ALLOWED:	No uncontrolled water infiltration to the room side.
RESULTS:	No uncontrolled water infiltration to the room side.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 547.

TYPICAL DETAILS

THE DETAILS CONTAINED ON THIS PAGE ILLUSTRATE THE TYPICAL USE OF MATERIALS IN THE ASSEMBLY OF SOUTHLAND LOG HOME MATERIAL PACKAGES. ONE OR MORE OF THESE DETAILS MAY NOT APPLY TO ANY ONE SPECIFIC PROJECT. YOUR CONTRACT PRICE QUOTE, AND THE INFORMATION PRESENTED IN YOUR PLANS TAKE PRECEDENCE OVER SPECIFICATIONS SHOWN HERE.

IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

WARNING!

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL:	CUSTOM
DESIGNED BY:	MRL
CHECKED BY:	AJJ
PLAN DATE:	01/17/06
DELIVERY DATE:	03/28/06

0603673
PROJECT NUMBER

6.9
SHEET NUMBER

3. **2.1.3 WATER RESISTANCE TEST** (ASTM E 547) at 6.0 PSF (49.0 MPH and .15" H_2O)

ALLOWED: No uncontrolled water infiltration to the room side.

RESULTS: No uncontrolled water infiltration to the room side.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 547.

4. **2.1.4.2 UNIFORM LOAD STRUCTURAL TEST** (ASTM E 330) at 1.5 times design load for ten (10) seconds duration in both directions. Deflections and permanent sets were measured at 1.5 times only.

+30.0 PSF (75% Positive Design Load) to remove slack
+60.0 PSF (150% Positive Design Load)
-30.0 PSF (75% Negative Design Load) to remove slack
-60.0 PSF (150% Negative Design Load)

ALLOWED: Permanent set of framing members shall not exceed 4/1000 of the span length or .275". There shall be no failure of the system.

RESULTS: .020" permanent set and there was no failure of the system.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM E 330.

5. **2.1.8 FORCED ENTRY TEST** (ASTM F 588) Performance Grade 10

	TEST TITLE	ALLOWED	RESULT
10.1.1.1	Lock Manipulation for 5 minutes.	No entry	No entry

	TEST TITLE	ALLOWED	RESULT
10.1.1.2	Lock manipulation for 5 minutes.	No entry	No entry
10.2.2.1	Static load test at 75 pounds.	No entry	No entry
10.2.2.2	Static load test at 150 pounds.	No entry	No entry
10.2.2.3	Static load test at 150 pounds.	No entry	No entry
10.2.2.4	Lock manipulation for 5 minutes.	No entry	No entry

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97 and ASTM F 588.

6. **2.2.5.6.1 VERTICAL DEFLECTION TEST** (AAMA 101-97)

ALLOWED: Maximum deflection of .64" at a concentrated load of 60 lbf.

RESULTS: .25" deflection at a concentrated load of 60 lbf.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

7. **2.2.5.6.2 HARDWARE LOAD TEST** (AAMA 101-97)

ALLOWED: There shall be no failure of screws or track, or permanent deformation of support arms at a uniform load of 6.24 PSF.

RESULTS: There was no failure of screws or track, or permanent deformation of support arms at a uniform load of 6.24 PSF.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

8. **2.2.5.6.3 TORSION TEST** (AAMA 101-97)

ALLOWED: Maximum deflection of 2.75" at a concentrated load of 20 lbf.

RESULTS: 1.25" deflection at a concentrated load of 20 lbf.

The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S.2-97.

SUMMARY

The Bilt Best Series Spirit "E" aluminum clad wood project out casement window unit as described in this report has met or exceeded all applicable test criteria set forth in AAMA/NWWDA 101/I.S.2-97 for a performance class of **C-HC40**.

This report or any portions thereof is valid for a period not to exceed four years and may not be reproduced by anyone or forwarded to anyone without written consent of Mid America Testing Laboratory. Participants referenced in the test report are welcome to a copy of this test report if so desired by the laboratory's client.

Respectfully submitted,

MID AMERICA TESTING LABORATORY

Rick A. Heitmann
President

RAH/slh
006 W

Wesley R. Godwin, P.E.

WESLEY RANDOLPH GODWIN
CERTIFICATE
0048137
STATE OF
FLORIDA
REGISTERED ENGINEER

Instructions for Upgrading the Clad Challenger II Double Hung Window to a DP50

BEFORE YOU START... READ THROUGH THESE INSTRUCTIONS

The following tools and accessories are recommended for this installation: CARPENTER'S HAMMER, STIFF BLAE PUTTY KNIFE, DRILL, 1/16" DRILL BIT, 2" FINISHING NAILS, PHILIPS SCREW DRIVER, and LATEX CAULK SEALAF.

FIGURE 1, INTERIOR VIEW

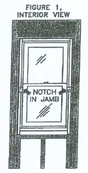
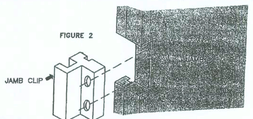


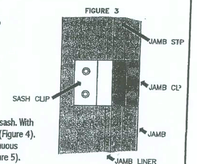
FIGURE 2



STEP 1, After Window is installed (Plumb, Square, & Level) locate notches in each jamb (Figure 1). Place jamb clip into notch and mark hole location with pencil (Figure 2). Pre drill holes with 1/16" diameter drill bit. Relocate jamb clip onto jamb and secure with two #8 x 1 1/2 Philips Flat Head screws provided.

STEP 2, With Window still in the closed position place sash clip onto sash and locate it so it interlocks with jamb clip (Figure 3). Mark holes with pencil and pre drill with 1/16" diameter drill bit. Relocate sash clip onto sash and secure with two #8 x 1 1/2" Philips Flat Head screws provided.

FIGURE 3



STEP 3, REMOVE SILL STOP. To remove sill stop open bottom sash. With stiff blade putty knife and hammer pry old sill stop up (Figure 4). Remove any nails that may be left in sill. Apply a continuous bead of caulk on sill before applying new sill stop (Figure 5). Nail new stop with 2" finish nails every 4".

Continues on back of sheet...

STE. GENEVIEVE, MO 63670

BiltBest Windows&Patio Doors

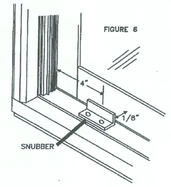
DP50 Upgrade Instructions, Continued from front.

FIGURE 4

FIGURE 5

STEP 4, From the outside of Window locate Snubbers approximately 4" from inside end of frame on each side, and no less than 1/8" away from sash (Figure 6). Mark screw holes with pencil and pre drill with 1/16" diameter drill bit. Relocate Snubbers on sill and secure with two #8 x 1 1/2" Philips Flat Head screws provided.

FIGURE 6



These instructions must be followed for proper operation and preformance. If you have questions, call BILTBEST Windows Service Department at 1 800 245-8234 or 573 883-3571.

STE. GENEVIEVE, MO 63670

BiltBest Windows&Patio Doors

BiltBest Windows&Patio Doors

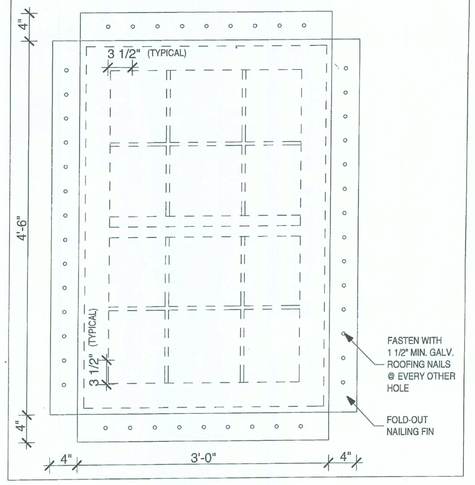
CLAD DOUBLE HUNG TILT INSTALLATION:

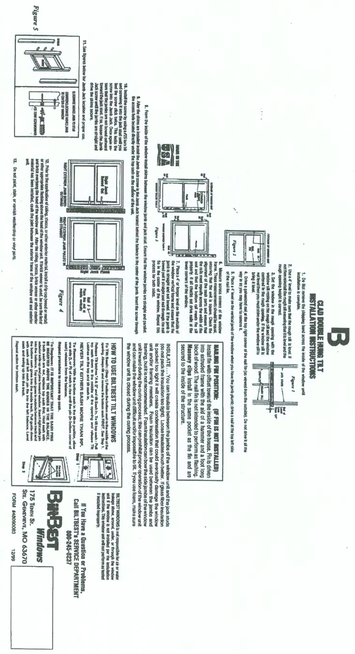
(SEE INSTRUCTIONS ON CHALLENGER II WINDOW INSTALLATION BY BUILT BEST IN SOUTHLAND LOG HOMES CONSTRUCTION MANUAL PROVIDED WITH YOUR HOME)

CLAD WINDOW FASTENING SCHEDULE (TYPICAL)

TYP.

NOT TO SCALE





TYPICAL DETAILS

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IMPORTANT NOTES
READ CAREFULLY
FINAL PLANS

WARNING!

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LOG STYLE & PROFILE
6x6 STOCKADE

YP
R/R

ROUND / ROUND

REVISIONS:

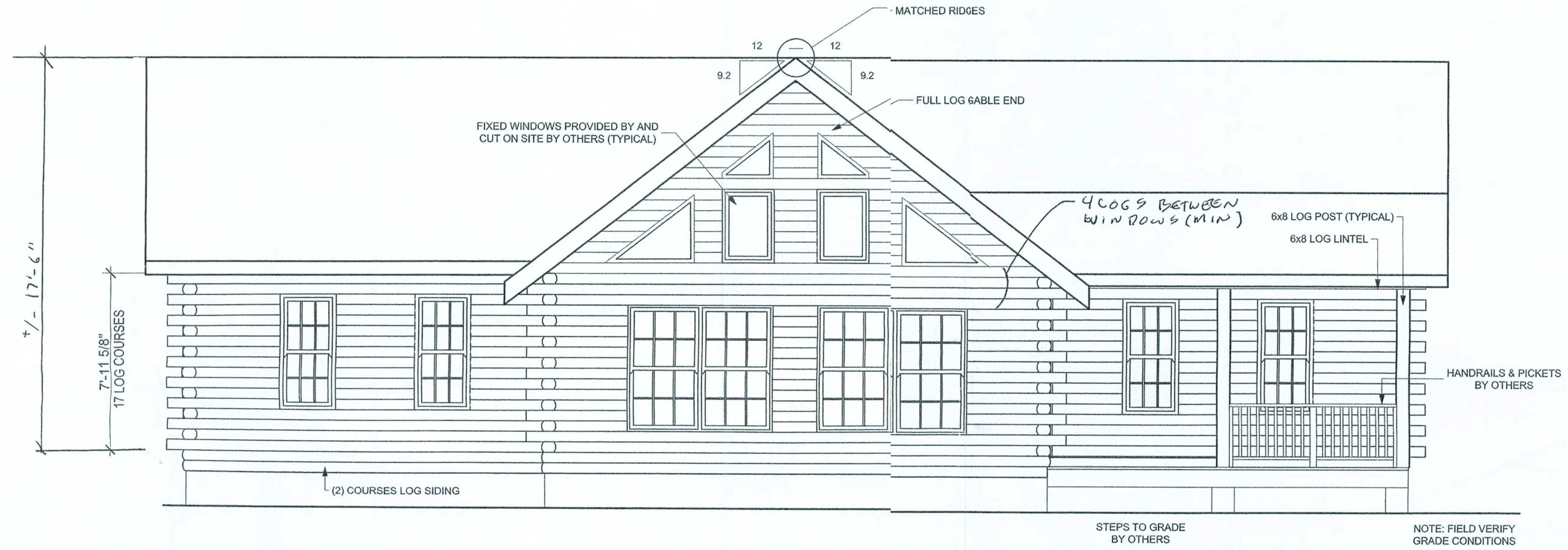
MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT.
LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROADFORD ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5151 FAX

MODEL:
CUSTOM
DESIGNED BY:
MRL
CHECKED BY:
AJJ
PLAN DATE:
01/17/06
DELIVERY DATE:
03/28/06

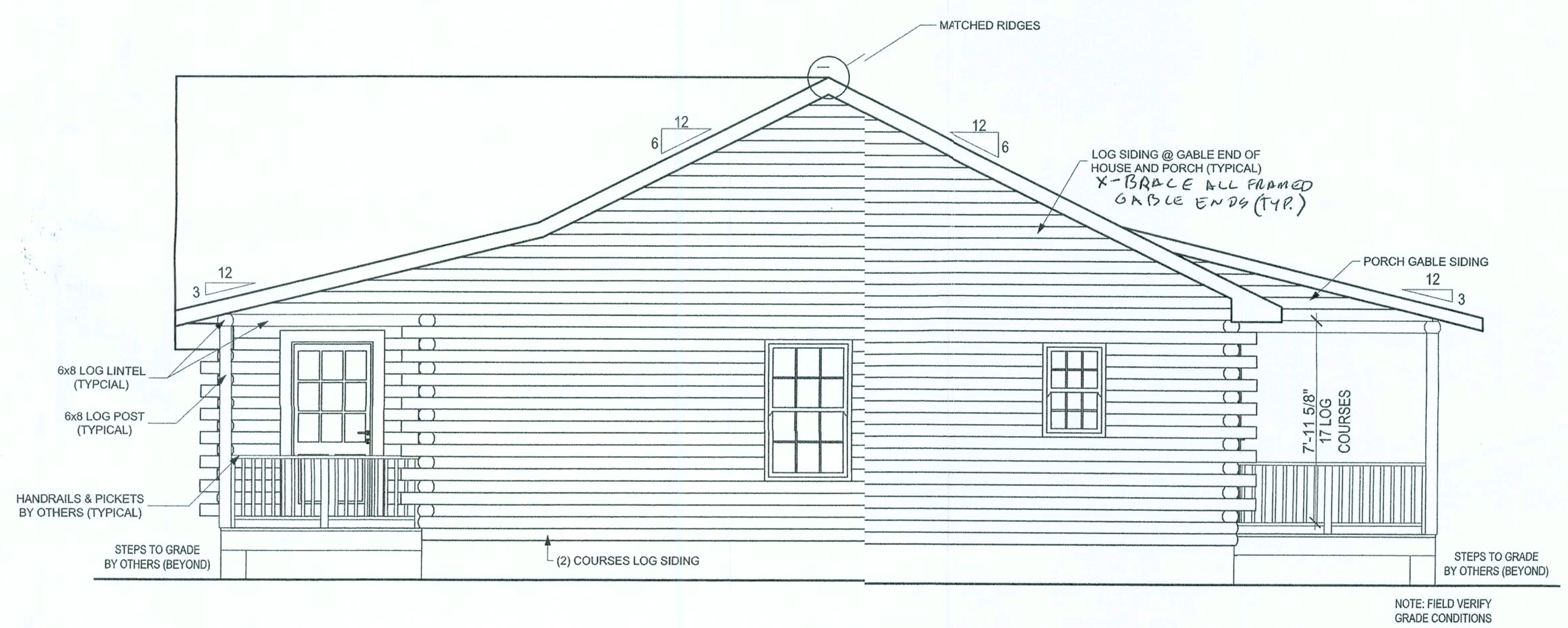
0603673
PROJECT NUMBER

6.10
SHEET NUMBER



FRONT ELEVATION

1/4" = 1'-0"



RIGHT ELEVATION

1/4" = 1'-0"

DESIGN DATA

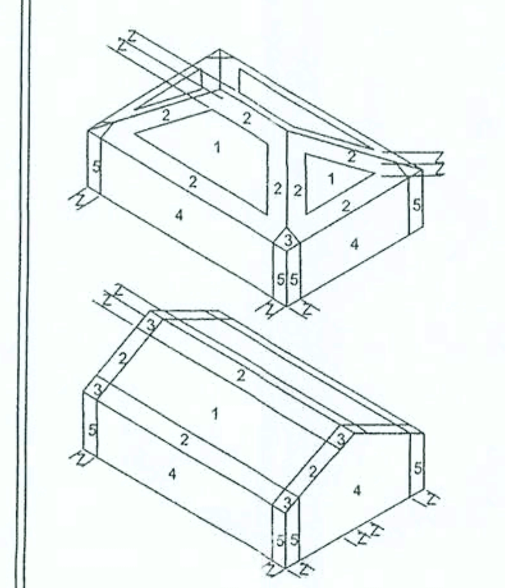
WIND LOADS PER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1

(ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT ON UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.)

BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE

BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION

1.) BASIC WIND SPEED = 110 MPH
2.) WIND EXPOSURE = B
3.) WIND IMPORTANCE FACTOR = 1.0
4.) BUILDING CATEGORY = II
5.) ROOF ANGLE = 10-45 DEGREES
6.) MEAN ROOF HEIGHT = <30 FT
7.) INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)
8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))



Zone	Effective Wind Area (ft2)			
	10		100	
1	19.9	-21.8	18.1	-18.1
2	19.9	-25.5	18.1	-21.8
2 O'hg		-40.6		-40.6
3	19.9	-25.5	18.1	-21.8
3 O'hg		-68.3		-42.4
4	21.8	-23.6	18.5	-20.4
5	21.8	-29.1	18.5	-22.6

Doors & Windows Worst Case (Zone 5, 10 ft2)	21.8	-29.1
8x7 Garage Door	19.5	-22.9
16x7 Garage Door	18.5	-21.0

DESIGN LOADS

FLOOR 40 PSF (ALL OTHER DWELLING ROOMS)
30 PSF (SLEEPING ROOMS)
30 PSF (ATTICS WITH STORAGE)
10 PSF (ATTICS WITHOUT STORAGE, <3:12)
ROOF 20 PSF (FLAT OR <4:12)
16 PSF (4:12 TO <12:12)
12 PSF (12:12 AND GREATER)
STAIRS 40 PSF (ONE & TWO FAMILY DWELLINGS)
SOIL BEARING CAPACITY 1000PSF
NOT IN FLOOD ZONE (BUILDER TO VERIFY)

GENERAL ELEVATION NOTES:

ALL EXTERIOR WOOD DOOR TRIM AND EXTERIOR NON-RADIUS WOOD WINDOW TRIM TO BE PROVIDED BY SOUTHLAND LOG HOMES. EXTERIOR TRIM FOR CLAD DOORS, CLAD WINDOWS, AND ANY RADIUS WINDOW TO BE PROVIDED BY OTHERS.

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS.

IMPORTANT NOTES
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FINAL PLANS

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:
[signature] 27FEB06

MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

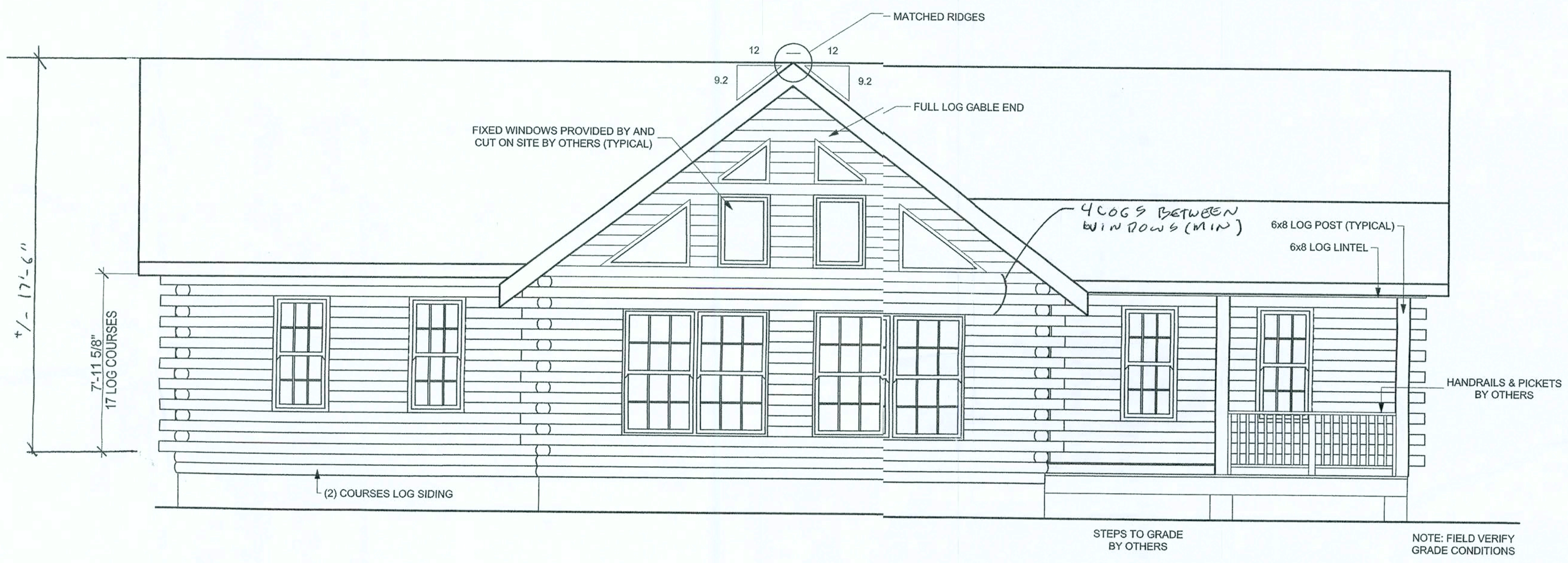
MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

1.1
SHEET NUMBER

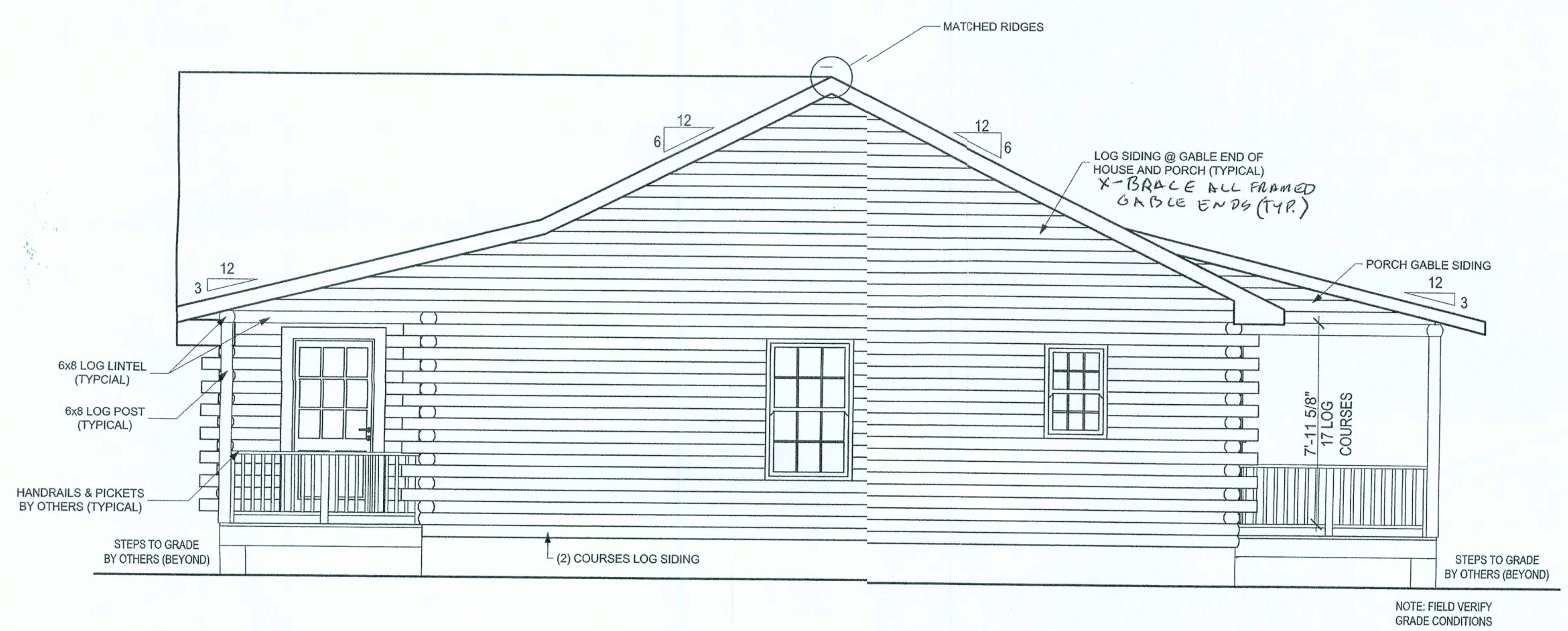
1/20/2006 11:47 AM ARCHICAD VERSION 8.1

0602-2



FRONT ELEVATION

1/4" = 1'-0"



RIGHT ELEVATION

1/4" = 1'-0"

DESIGN DATA

WIND LOADS PER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1

(ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT ON UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.)

BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE

BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION

1.) BASIC WIND SPEED = 110 MPH

2.) WIND EXPOSURE = B

3.) WIND IMPORTANCE FACTOR = 1.0

4.) BUILDING CATEGORY = II

5.) ROOF ANGLE = 10-45 DEGREES

6.) MEAN ROOF HEIGHT = <30 FT

7.) INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)

8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))

Zone	Effective Wind Area (ft2)			
	10		100	
1	19.9	-21.8	18.1	-18.1
2	19.9	-25.5	18.1	-21.8
2 O'hg		-40.6		-40.6
3	19.9	-25.5	18.1	-21.8
3 O'hg		-68.3		-42.4
4	21.8	-23.6	18.5	-20.4
5	21.8	-29.1	18.5	-22.6

Doors & Windows Worst Case (Zone 5, 10 ft2)	21.8	-29.1
8x7 Garage Door	19.5	-22.9
16x7 Garage Door	18.5	-21.0

DESIGN LOADS

FLOOR 40 PSF (ALL OTHER DWELLING ROOMS)
30 PSF (SLEEPING ROOMS)
30 PSF (ATTICS WITH STORAGE)
10 PSF (ATTICS WITHOUT STORAGE, <3:12)

ROOF 20 PSF (FLAT OR <4:12)
16 PSF (4:12 TO <12:12)
12 PSF (12:12 AND GREATER)

STAIRS 40 PSF (ONE & TWO FAMILY DWELLINGS)

SOIL BEARING CAPACITY 1000PSF

NOT IN FLOOD ZONE (BUILDER TO VERIFY)

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NOTE:

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REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS.

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FINAL PLANS

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:
[signature] 27FEB06

MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

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0603673
PROJECT NUMBER

1.1
SHEET NUMBER

1/20/2006 11:47 AM ARCHICAD VERSION 8.1

DOOR SCHEDULE

Created at 9:05 AM 1/16/2006

MARK	SIZE	ROUGH OPENING	TYPE	QTY	REMARKS	PROVIDED BY
1	3-0 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass 2-Panel 9 Lite Door-LI (High Wind)	Southland
2	3-0 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass Full View French Door-RI (High Wind)	Southland
3	6-0 x 6-8	6-3 1/4 x 6-10 1/2	EXT	1	Fiberglass Full View French Door-LO (Highwind)	Southland

WINDOW SCHEDULE

Created at 11:23 AM 1/17/2006

MARK	SIZE	ROUGH OPENING	TYPE	QTY	REMARKS	PROVIDED BY
A	2-0 x 3-2	2-2 x 3-5 1/2	D/H	1	Green Clad Single-Tempered (High Wind)	Southland
B	2-0 x 4-6	2-2 x 4-9 1/2	D/H	4	Green Clad Single (High Wind)	Southland
C	3-0 x 3-2	3-2 x 3-5 1/2	D/H	1	Green Clad Single (High Wind)	Southland
D	3-0 x 5-2	3-2 x 5-5 1/2	D/H	4	Green Clad Single (High Wind)	Southland
E	3-0 x 5-2	6-3 3/8 x 5-5 1/2	D/H	2	Green Clad Twin (High Wind)	Southland
F	Varies	Owner to Verify	Fixed	1	Green Clad Trapezoid Left Hand (High Wind)	Owner
G	Varies	Owner to Verify	Fixed	1	Green Clad Trapezoid Right Hand (High Wind)	Owner
H	Varies	Owner to Verify	Fixed	1	Green Clad Triangle Left Hand (High Wind)	Owner
I	Varies	Owner to Verify	Fixed	1	Green Clad Triangle Right Hand (High Wind)	Owner
J	191/2x29 5/8	2-0 3/4 x 2-10 7/8	FIXED	1	Green Clad Single (High Wind)	Owner
K	191/2x29 5/8	2-0 3/4 x 2-10 7/8	FIXED	1	Green Clad Single (High Wind)	Owner

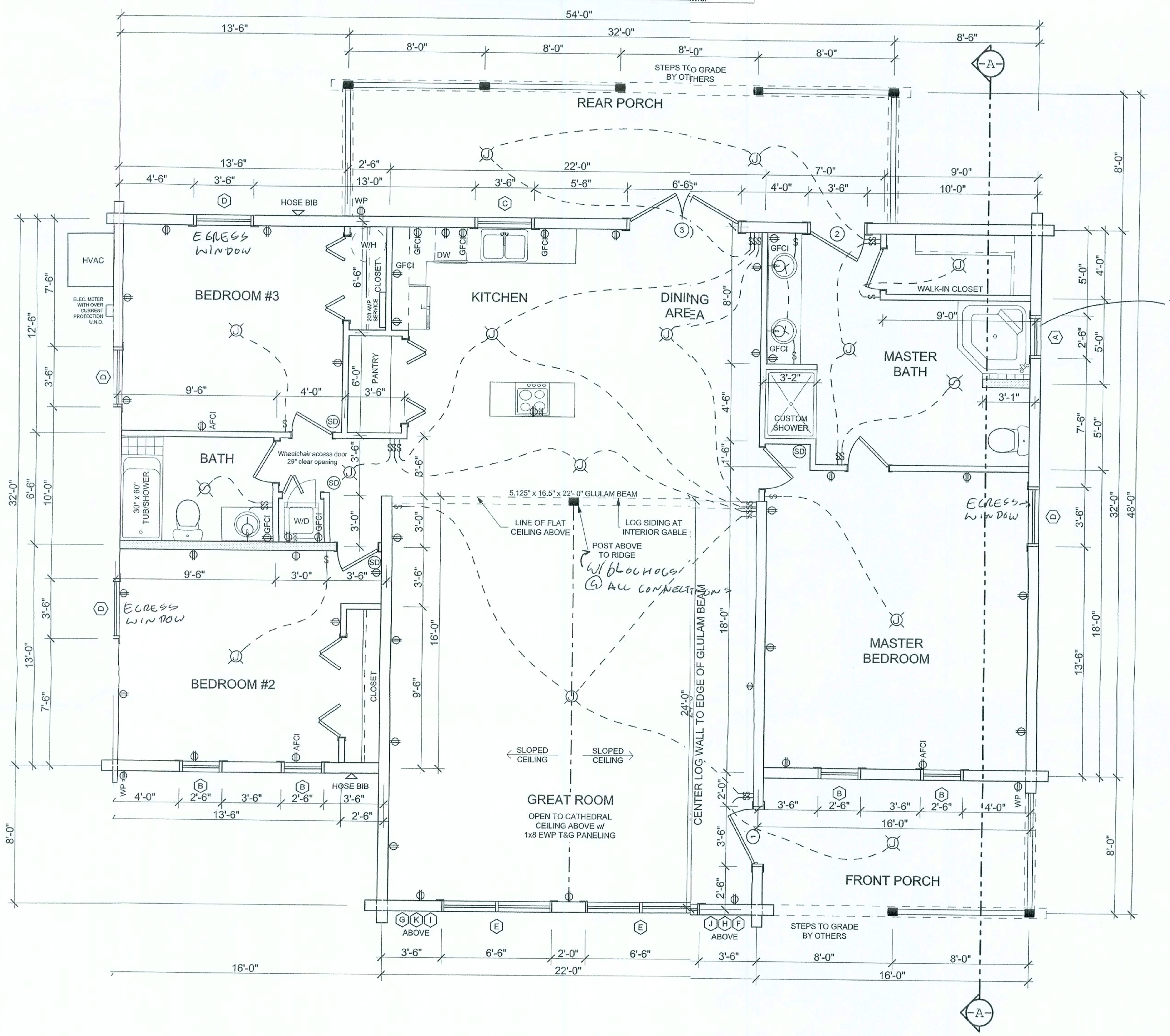
SQUARE FOOTAGE (ANSI Z765-2003)

HEATED AREAS:	
FIRST FLOOR	1963 Sq. Ft.
TOTAL HEATED	1963 Sq. Ft.
UNHEATED AREAS:	
PORCH(ES)	380 Sq. Ft.
TOTAL UNHEATED	380 Sq. Ft.
TOTAL UNDER ROOF	2343 Sq. Ft.

EXTRA ITEMS PURCHASED WITH YOUR LOG HOME PACKAGE

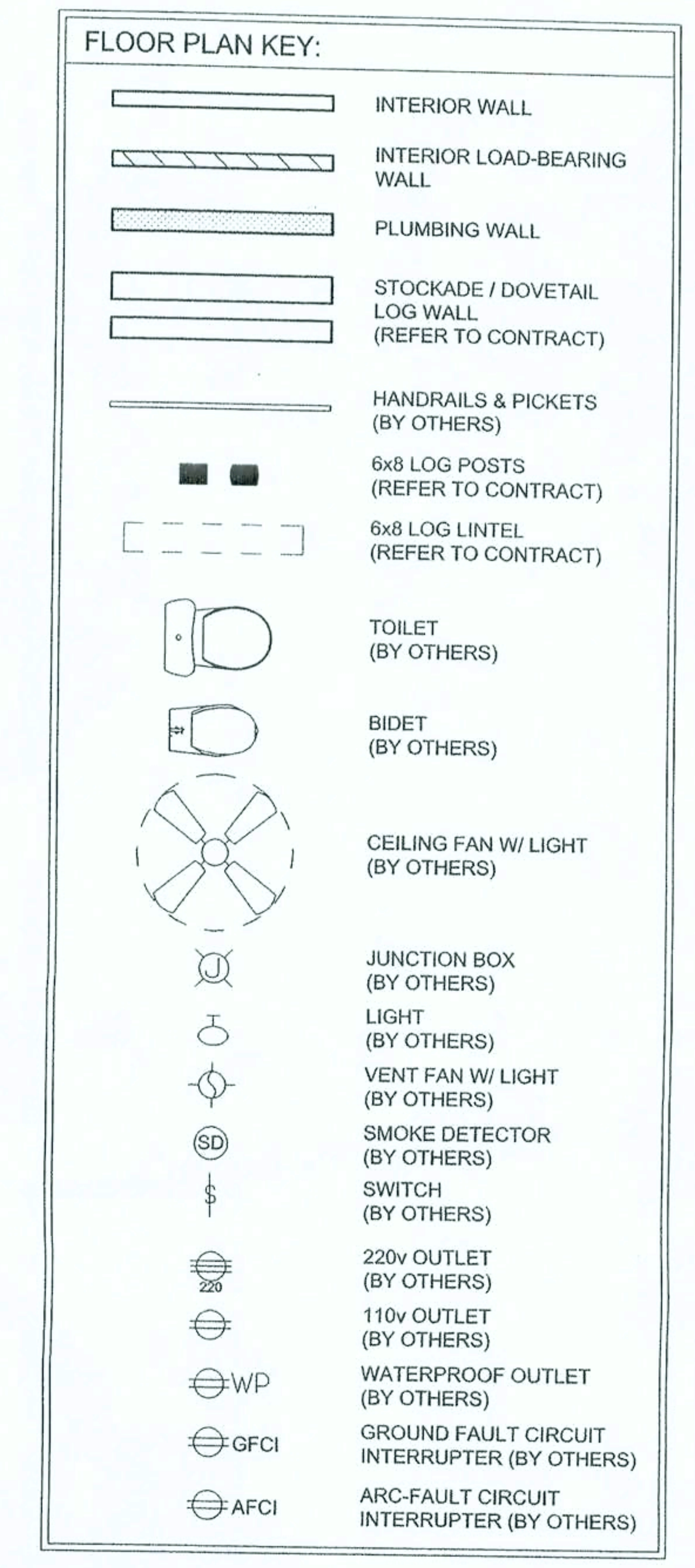
EXTRA 1x8 WHITE PINE T&G	1485	lnft
EXTRA LOG SIDING: 6in-YP SIDING	280	lnft

6x8 STOCKADE-SYP
SUNDRY ITEMS ARE INCLUDED IN YOUR LOG HOME PACKAGE



FIRST FLOOR PLAN

1/4" = 1'-0"



GENERAL FLOOR PLAN NOTES:

1.) UNLESS NOTED OTHERWISE, ALL INTERIOR STUD WALLS ARE NON-LOAD BEARING. FLOOR SYSTEM DESIGN BASED ON SELF-SUPPORTING ROOF. ROOF LOADS TO BE CARRIED ON LOG WALLS OR INTERIOR SUPPORT BEAMS.

2.) FLOOR LOADS ARE BASED ON A LIVE LOAD OF:
30 PSF, L/Λ = 360 IN SLEEPING AREAS
40 PSF, L/Λ = 360 IN LIVING AREAS
PER 2003 IRC ONE & TWO FAMILY CODE

3.) UNLESS OTHERWISE NOTED, ROOF LOADS ARE DESIGNED FOR 15 PSF DEAD LOAD. ALL OTHER ROOF LOADS TO BE DETERMINED BY LOCAL BUILDING CODES

4.) SMOKE DETECTORS SHALL RECEIVE PRIMARY POWER FROM BUILDING ELECTRICAL SYSTEM AND SHALL BE EQUIPPED WITH BATTERY BACKUP. DETECTORS SHALL EMIT LOW BATTERY SIGNAL.

ELECTRICAL PLAN NOTES

E -1 WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

E -2 CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

E -3 ALL INSTALLATIONS SHALL BE PER NAT'L. ELECTRIC CODE.

E -4 ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

E -5 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.

E -6 ELECTRICAL CONT'R SHALL BE RESPONSIBLE FOR THE DESIGN & SIZING OF ELECTRICAL SERVICE AND CIRCUITS.

E -7 ENTRY OF SERVICE (UNDERGROUND OR OVERHEAD) TO BE DETERMINED BY POWER COMPANY.

E -8 ALL BEDROOM RECEPTACLES SHALL BE AFCI (ARC FAULT CIRCUIT INTERRUPT)

E -9 ALL OUTLETS TO BE LOCATED ABOVE BASE FLOOD ELEVATION

E -10 A SERVICE DISCONNECT WITH OVER CURRENT PROTECTION SHALL BE INSTALLED OUTSIDE OF THE BUILDING, ON THE LOAD SIDE OF THE METER, AT THE PLACE ELECTRIC CONDUCTORS ENTER THE BUILDING.
SERVICE ENTRANCE CONDUCTORS MAY NOT BE LOCATED INSIDE OF THE OF THE BUILDING WITHOUT SPECIAL APPROVAL OF THE BUILDING OFFICIAL

NOTE:

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IMPORTANT NOTES READ CAREFULLY
FINAL PLANS

WARNING!

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLANDATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

2.1
SHEET NUMBER

DOOR SCHEDULE

Created at 9:05 AM 1/16/2006

MARK	SIZE	ROUGH OPENING	TYPE	QTY	REMARKS	PROVIDED BY
1	3 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass 2-Panel 9 Lite Door-LI (High Wind)	Southland
2	3 x 6-8	3-2 1/2 x 6-10 1/2	EXT	1	Fiberglass Full View French Door-RI (High Wind)	Southland
3	6 x 6-8	6-3 1/4 x 6-10 1/2	EXT	1	Fiberglass Full View French Door-LO (Highwind)	Southland

WINDOW SCHEDULE

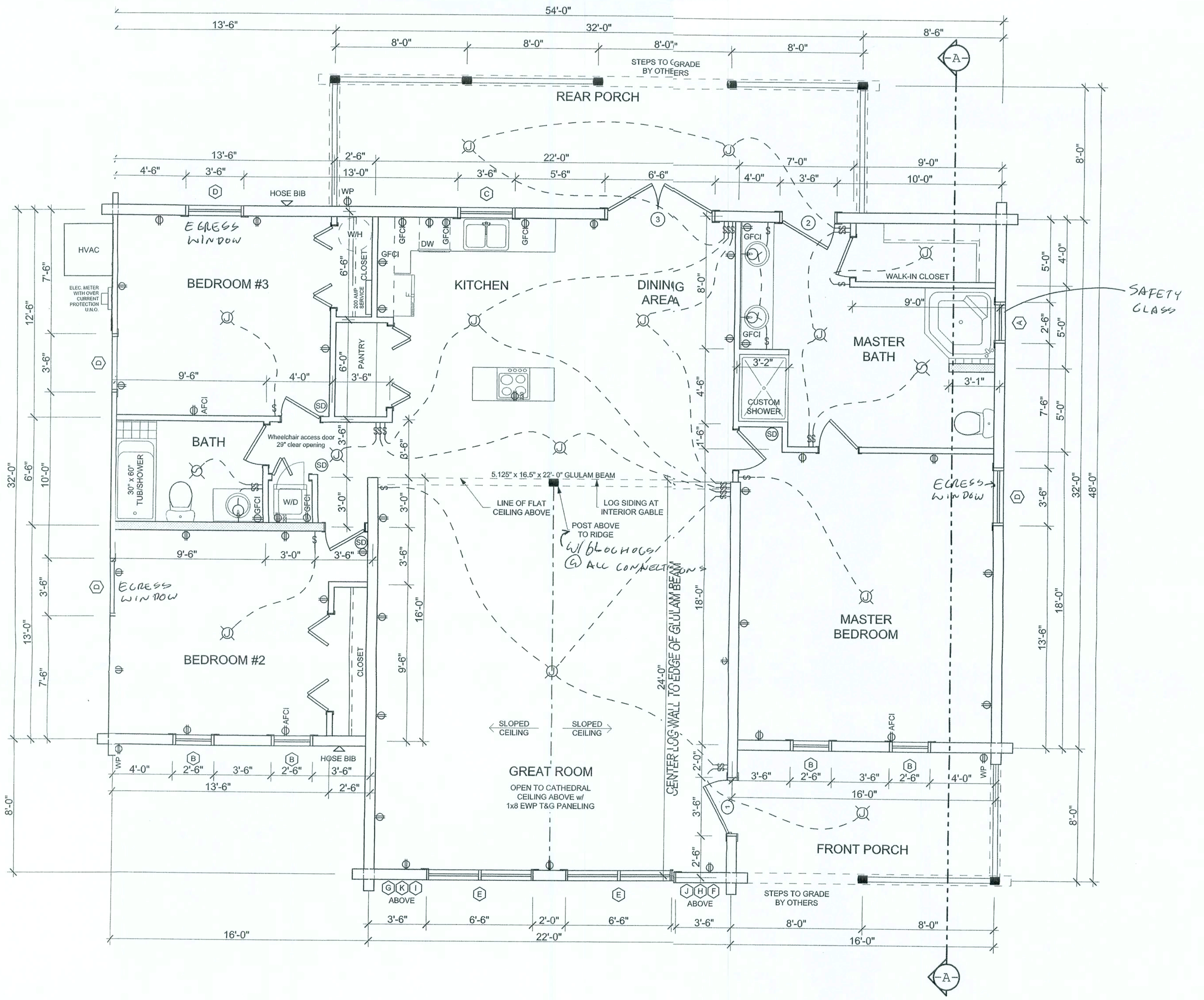
Created at 11:23 AM 1/17/2006

MARK	SIZE	ROUGH OPENING	TYPE	QTY	REMARKS	PROVIDED BY
A	2 x 3-2	2-2 x 3-5 1/2	D/H	1	Green Clad Single-Tempered (High Wind)	Southland
B	2 x 4-6	2-2 x 4-9 1/2	D/H	4	Green Clad Single (High Wind)	Southland
C	3 x 3-2	3-2 x 3-5 1/2	D/H	1	Green Clad Single (High Wind)	Southland
D	3 x 5-2	3-2 x 5-5 1/2	D/H	4	Green Clad Single (High Wind)	Southland
E	3 x 5-2	6-3 3/8 x 5-5 1/2	D/H	2	Green Clad Twin (High Wind)	Southland
F	Varies	Owner to Verify	Fixed	1	Green Clad Trapezoid Left Hand (High Wind)	Owner
G	Varies	Owner to Verify	Fixed	1	Green Clad Trapezoid Right Hand (High Wind)	Owner
H	Varies	Owner to Verify	Fixed	1	Green Clad Triangle Left Hand (High Wind)	Owner
I	Varies	Owner to Verify	Fixed	1	Green Clad Triangle Right Hand (High Wind)	Owner
J	19 1/2x29 5/8	2-0 3/4 x 2-10 7/8	FIXED	1	Green Clad Single (High Wind)	Owner
K	19 1/2x29 5/8	2-0 3/4 x 2-10 7/8	FIXED	1	Green Clad Single (High Wind)	Owner

SQUARE FOOTAGE (ANSI Z765-2003)	
HEATED AREAS:	
FIRST FLOOR	1963 Sq. Ft.
TOTAL HEATED	1963 Sq. Ft.
UNHEATED AREAS:	
PORCH(ES)	380 Sq. Ft.
TOTAL UNHEATED	380 Sq. Ft.
TOTAL UNDER ROOF	2343 Sq. Ft.

EXTRA ITEMS PURCHASED WITH YOUR LOG HOME PACKAGE		
EXTRA 1x8 WHITE PINE T&G	1485	lnft
EXTRA LOG SIDING: 6in-YP SIDING	280	lnft

6x8 STOCKADE-SYP
SUNDRY ITEMS ARE INCLUDED IN YOUR LOG HOME PACKAGE



FIRST FLOOR PLAN

1/4" = 1'-0"

FLOOR PLAN KEY:

- INTERIOR WALL
- INTERIOR LOAD-BEARING WALL
- PLUMBING WALL
- STOCKADE / DOVETAIL LOG WALL (REFER TO CONTRACT)
- HANDRAILS & PICKETS (BY OTHERS)
- 6x8 LOG POSTS (REFER TO CONTRACT)
- 6x8 LOG LINTEL (REFER TO CONTRACT)
- TOILET (BY OTHERS)
- BIDET (BY OTHERS)
- CEILING FAN W/ LIGHT (BY OTHERS)
- JUNCTION BOX (BY OTHERS)
- LIGHT (BY OTHERS)
- VENT FAN W/ LIGHT (BY OTHERS)
- SD SMOKE DETECTOR (BY OTHERS)
- SWITCH (BY OTHERS)
- 220v OUTLET (BY OTHERS)
- 110v OUTLET (BY OTHERS)
- WP WATERPROOF OUTLET (BY OTHERS)
- GFCI GROUND FAULT CIRCUIT INTERRUPTER (BY OTHERS)
- AFCI ARC-FAULT CIRCUIT INTERRUPTER (BY OTHERS)

GENERAL FLOOR PLAN NOTES:

1.) UNLESS NOTED OTHERWISE, ALL INTERIOR STUD WALLS ARE NON-LOAD BEARING. FLOOR SYSTEM DESIGN BASED ON SELF-SUPPORTING ROOF. ROOF LOADS TO BE CARRIED ON LOG WALLS OR INTERIOR SUPPORT BEAMS.

2.) FLOOR LOADS ARE BASED ON A LIVE LOAD OF:
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PER 2003 IRC ONE & TWO FAMILY CODE

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6x8 STOCKADE
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DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+33H+732
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/21/06

0603673
PROJECT NUMBER

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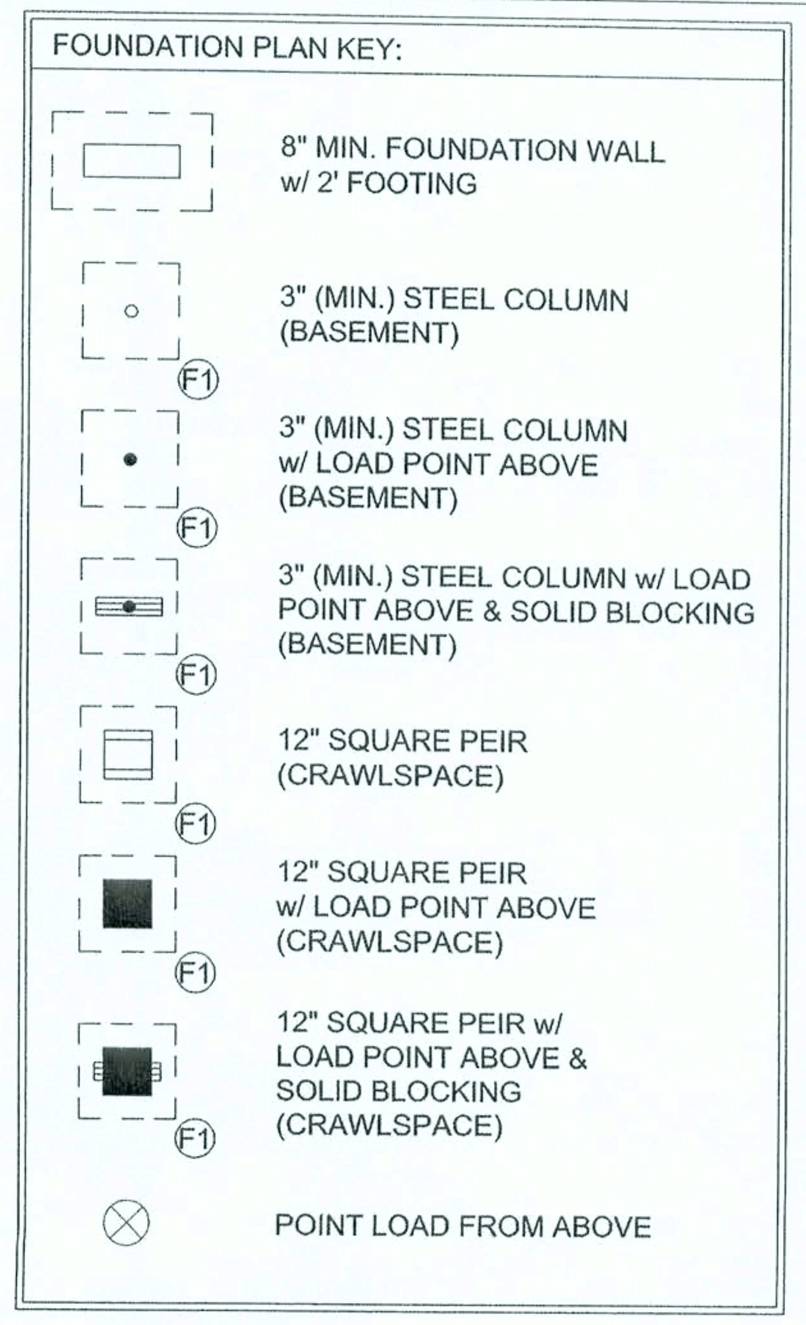
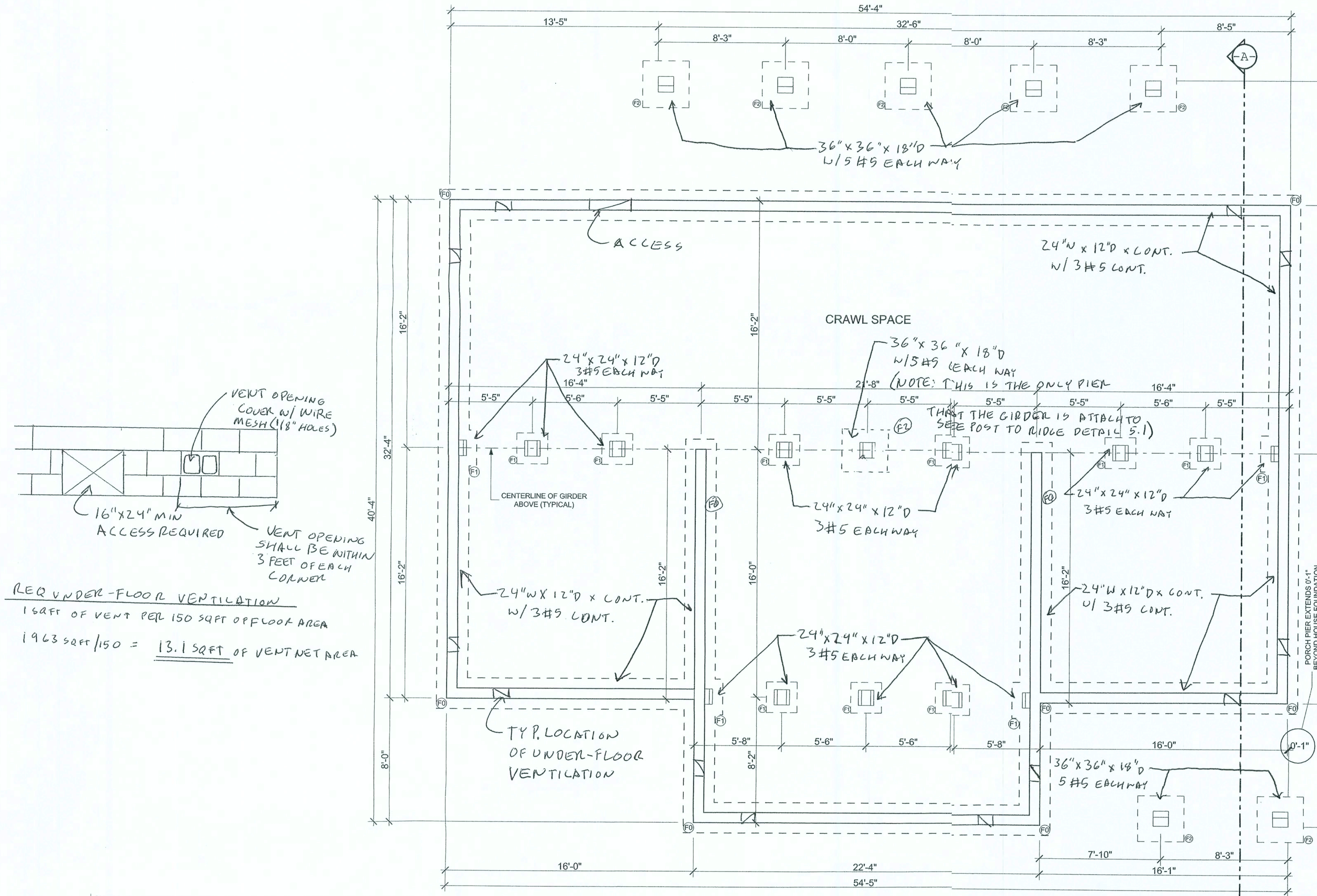
1/20/2006 11:48 AM ARCHICAD VERSION 8.1





FOUNDATION PLAN

1/4" = 1'-0"

SITE PREPARATION: SITE ANALYSIS AND PREPARATION INFORMATION IS NOT PART OF THIS PLAN AND IS RESPONSIBILITY OF THE OWNER. ALL FOUNDATIONS AND FOOTINGS ARE DESIGNED FOR STABLE SOIL CONDITIONS WITH 1000 PSF BEARING CAPACITY. SITE INSPECTION OF SOIL CONDITIONS SHALL DETERMINE IF THERE IS ANY EVIDENCE OF UNSUITABLE BEARING MATERIALS. QUESTIONABLE MATERIALS PRESENT SHOULD CALL FOR SOILS TESTS AND ANALYSIS BY GEOTECHNICAL ENGINEER TO ASSURE THAT EXPANDING CLAYS AND OTHER PROBLEMATIC SOILS CONDITIONS DO NOT EXIST, OR TO ALLOW MITIGATION SHOULD THEY EXIST. ALL FILL UNDER STRUCTURAL ELEMENTS SHALL BE CLEAN SAND/SOIL FILL, FREE FROM DEBRIS AND ORGANIC MATERIALS COMPACTED IN LIFTS OF NOT MORE THAN 6 INCHES, LOOSE MEASURE. IT IS THE OWNER'S / BUILDER'S RESPONSIBILITY TO VERIFY EXISTING SOIL AND CLEAN FILL ARE COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER THE MODIFIED PROCTOR TEST AND PROVIDE 2000 PSF MINIMUM BEARING CAPACITY OR REQUEST FOUNDATION DESIGN BASED ON ACTUAL SITE CONDITIONS.

FOUNDATION:
ASSUMED SAFE BEARING CAPACITY OF 1000 PSF SHALL BE CONFIRMED IN THE FIELD BY A REGISTERED GEOTECHNICAL ENGINEER OR SHALL BE APPROVED BY THE OWNER. FOOTINGS AND SLABS ARE TO BEAR ON FIRM UNDISTURBED EARTH OR CLEAN SAND/SOIL FILL, FREE FROM DEBRIS AND ORGANIC MATERIALS COMPACTED IN LIFTS OF NOT MORE THAN 6 INCHES, LOOSE MEASURE. WHERE UNACCEPTABLE MATERIAL OCCURS, EXCAVATE AND REPLACE WITH ENGINEERED FILL. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS.

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE F'c = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE.

WLDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE RENFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OFTHE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

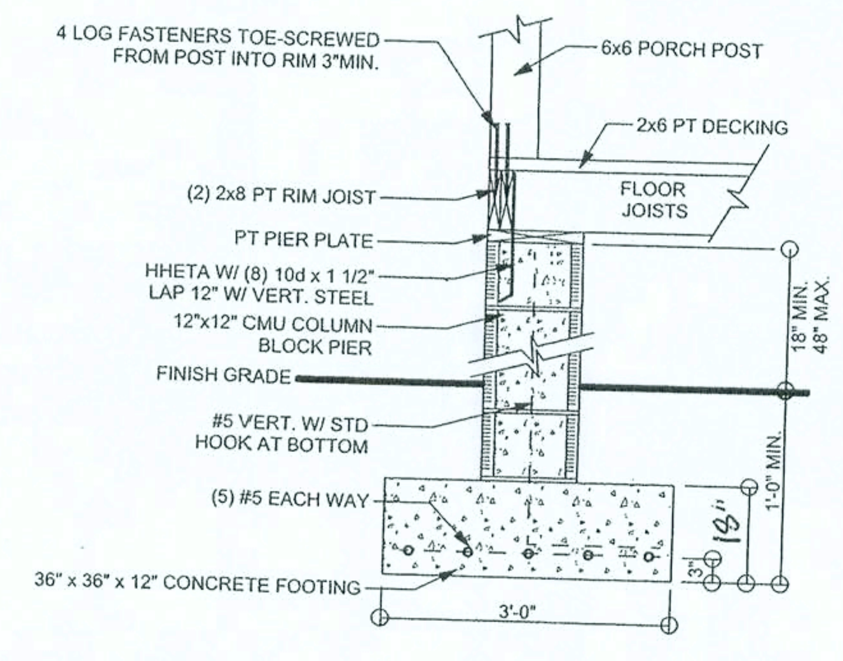
FIER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C 1116 WHEN REQUESTED BY THE BUILDING OFFICIAL.

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAPS SPLICES 40 * DB25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-95 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 23 INCHES.

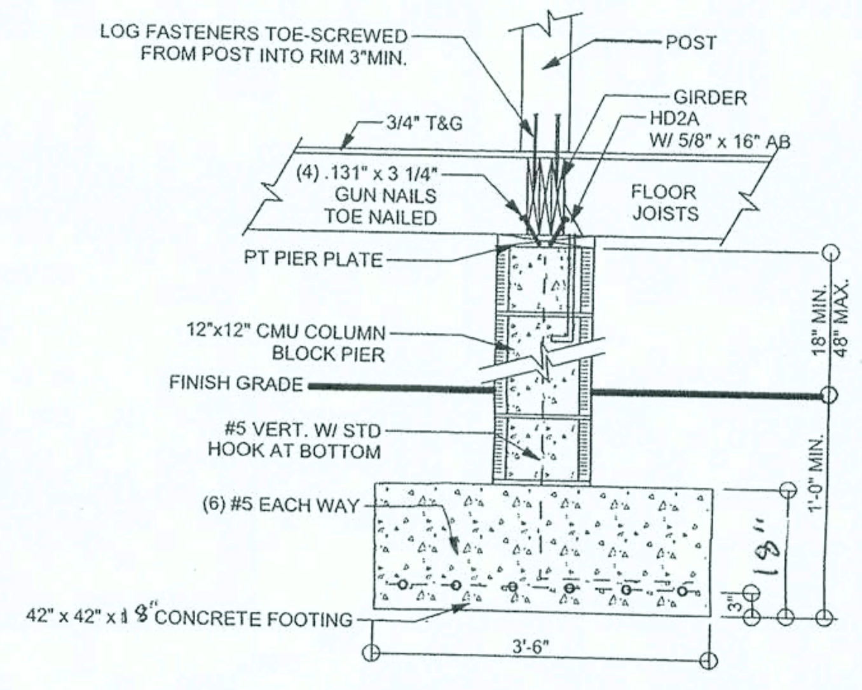
CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

CONCRETE BLOCK: ASTM C-90 WITH MEDIUM SURFACE FINISH, F'm = 1500 PSI.

MORTAR: TYPE M OR N FOR ALL MASONRY UNITS.



F2 1' PORCH PIER WITH UPLIFT
SCALE: 1/2" = 1'-0"



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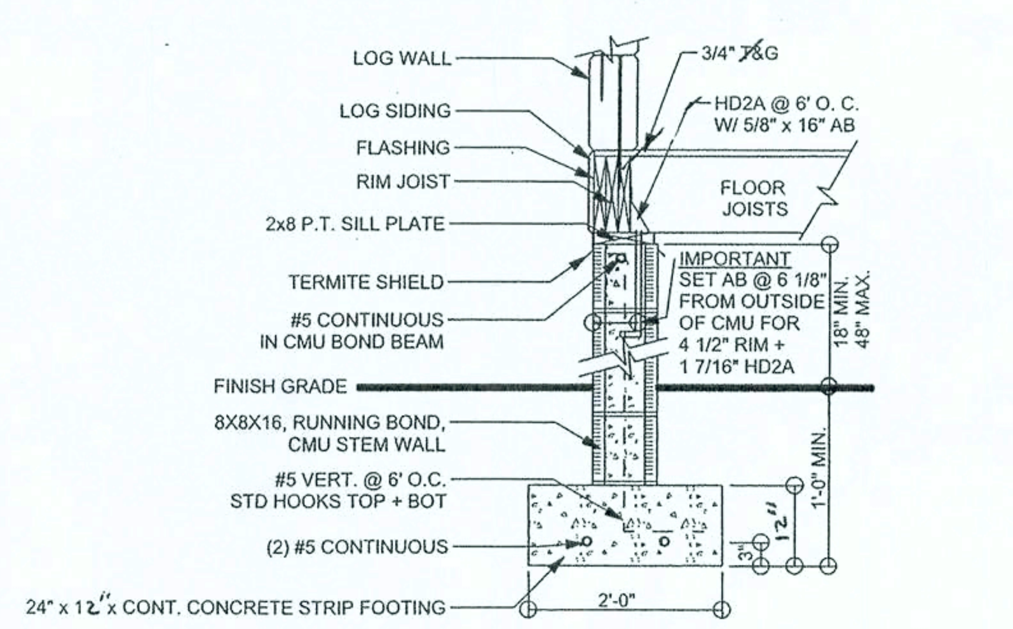
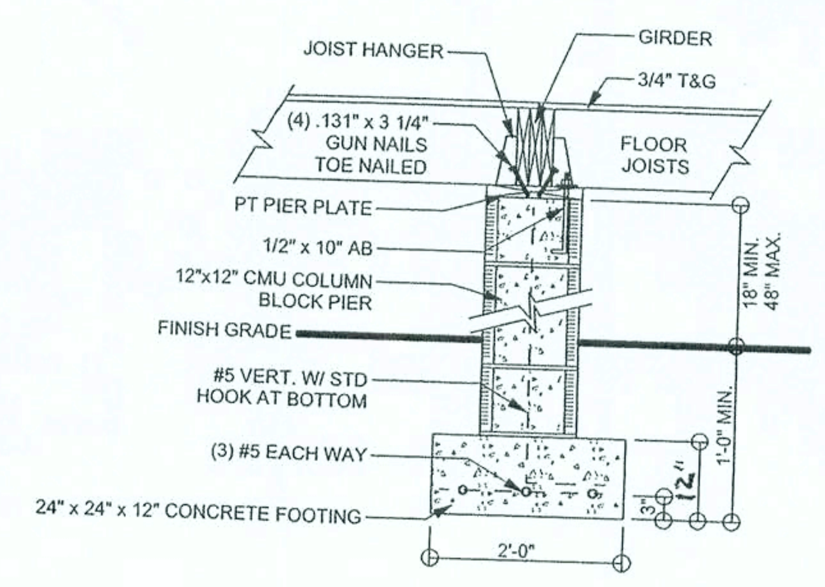


F0 STEMWALL FOUNDATION (CRAWLSPACE)
SCALE: 1/2" = 1'-0"



F1 1' PIER WITHOUT UPLIFT
SCALE: 1/2" = 1'-0"

GENERAL CRAWLSPACE NOTES:

1.) SOIL BEARING PRESSURE IS ASSUMED TO BE A MINIMUM OF 1000 PSF. IF SOIL CONDITIONS ARE FOUND TO BE LESS THAN THE ASSUMED, CONTACT A LOCAL STRUCTURAL ENGINEER FOR A RE-EVALUATION OF FOUNDATION PLAN.

2.) 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

3.) DROP PORCH AND DECK PIER HEIGHT SO THAT TOP OF DECKING IS 5 5/8" BELOW MAIN HOUSE SUBFLOOR.

4.) FIREPLACE DIMENSIONS AND SPECIFICATIONS TO BE VERIFIED WITH OWNER BEFORE CONSTRUCTION.

5.) 12" x 12" FOUNDATION PIERS WITH 24" x 24" CONCRETE FOOTINGS ARE SHOWN. REINFORCE FOOTING WITH (3) #5 REBARS EACH WAY. 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

6.) FOR REBAR PLACEMENT IN EXTERIOR FOUNDATION WALL FOOTING SEE "FOUNDATION/ BASEMENT" IN THE CONSTRUCTION DETAIL SHEETS.

7.) ALTHOUGH NO FOUNDATION VENTS ARE SHOWN, CONTRACTOR IS RESPONSIBLE FOR LOCATING AND INSTALLING VENTS. THE MINIMUM NET AREA OF VENT OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF CRAWLSPACE. ONE SUCH OPENING SHALL BE WITHIN 3 FT. OF THE CORNER OF THE BUILDING. FOR EXCEPTIONS SEE SBC.

8.) CRAWL SPACE HEIGHT TO BE A MINIMUM OF 18" FROM BOTTOM OF FLOOR JOIST TO TOP OF FINISH GRADE OR PER LOCAL CODE - WHICHEVER IS GREATER.

9.) 16" x 16" FULLY GROUTED MASONARY BLOCK COLUMN REQ'D @ EA. FOUNDATION END OF THE MULTIPLE 2X10 & GLULAM GIRDERS. REINFORCE EACH CELL w/ (1) #5 REBAR MIN. BOLT WOOD SEAT ATOP COLUMN FOR GIRDER TO BEAR UPON.

FOOTING SCHEDULE

MARK	MARK	REINFORCING
F0	2'-0" x 12" x CONT.	3 #5 BARS CONTINUOUS
F1	2'-0" x 2'-0" x 12"	3 #5 BARS EACH WAY
F2	3'-0" x 3'-0" x 18"	5 #5 BARS EACH WAY
F3	2'-0" x 3'-0" x 18"	#5 BARS @ 6" O.C.
F4	3'-0" x 5'-0" x 18"	#5 BARS @ 6" O.C.
F5	3'-0" x 8'-0" x 18"	#5 BARS @ 6" O.C.
F6	4'-0"x4'-0"x24"	7 #5 Bars Each Way
F7	2'-6" x 2'-6" x 15"	3 #5 BARS EACH WAY
F8	3'-6" x 3'-6" x 24"	6 #5 BARS EACH WAY

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WARNING!

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SOUTHLAND LOG HOMES

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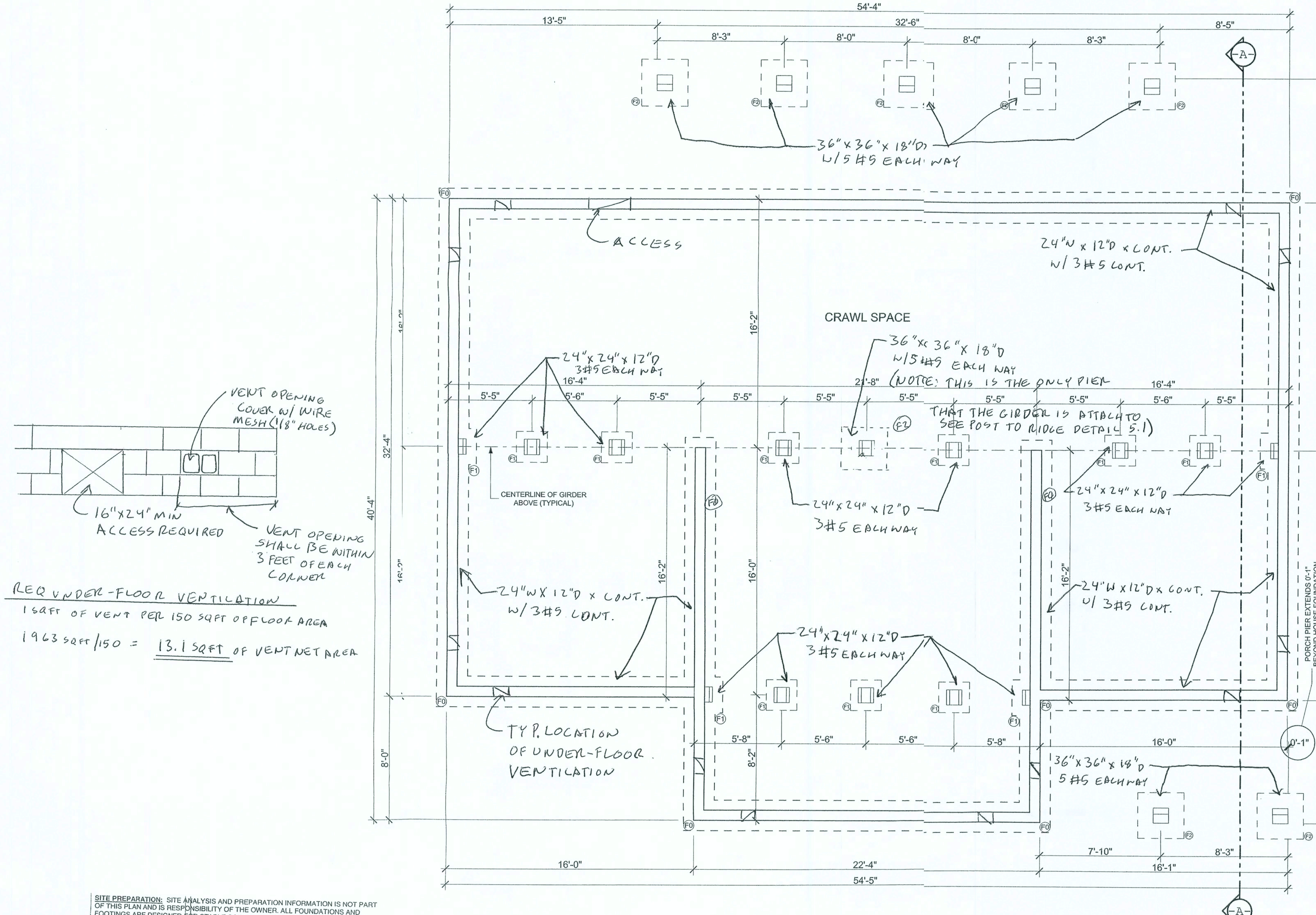

FOUNDATION PLAN

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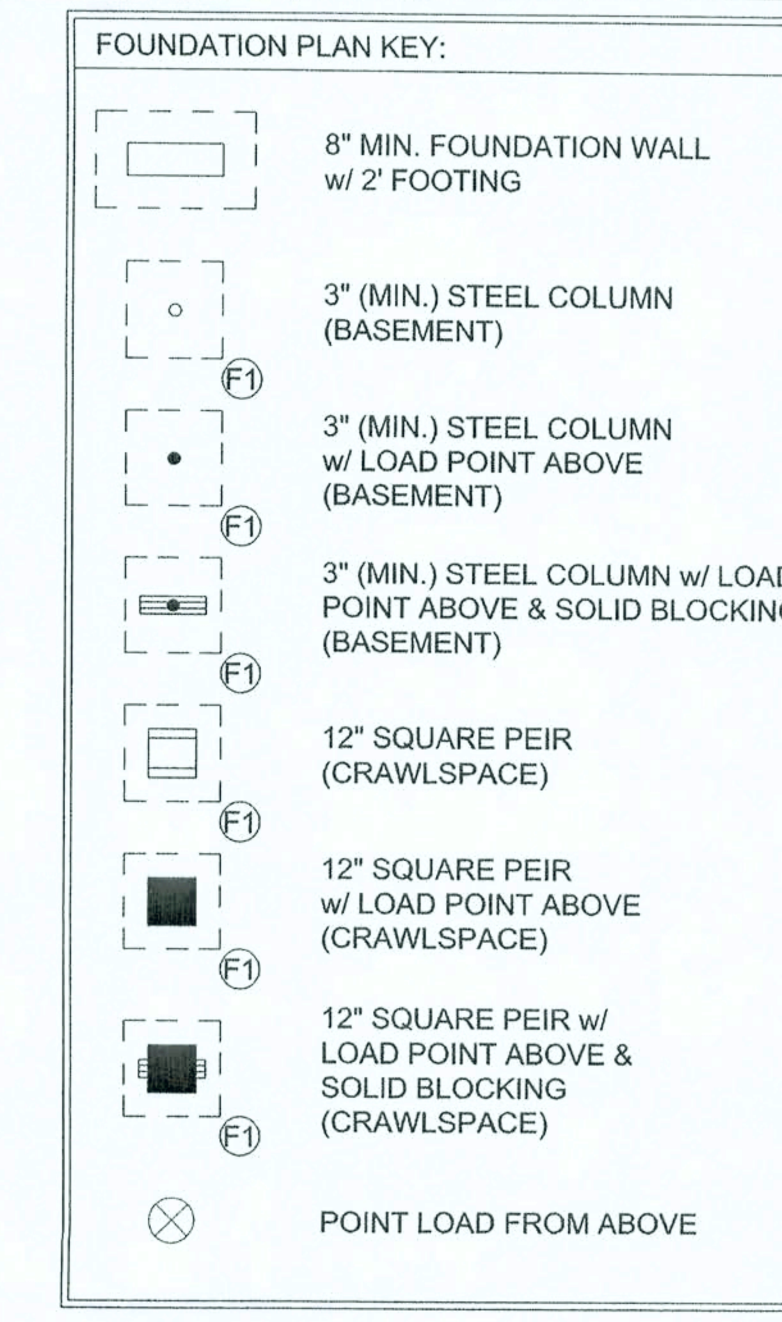

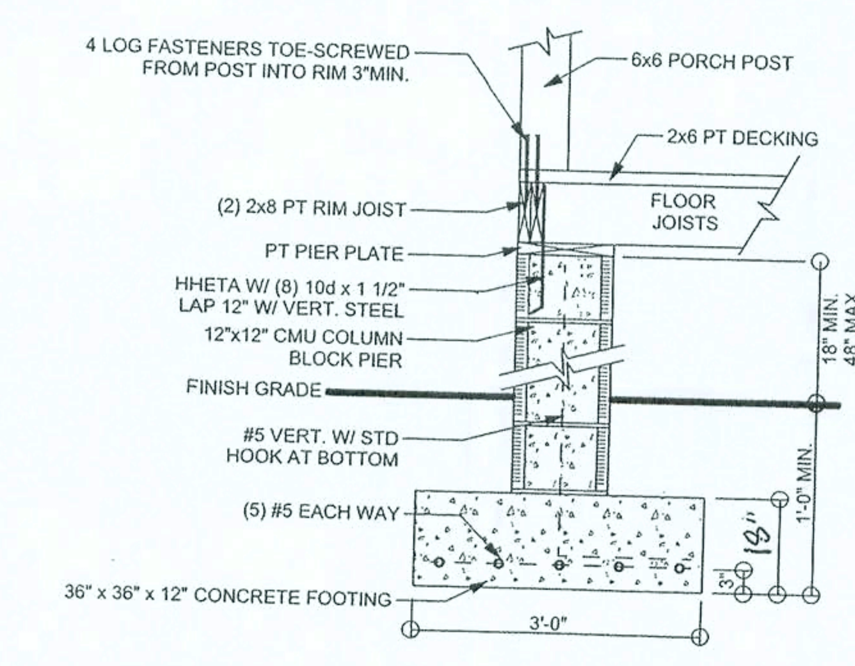

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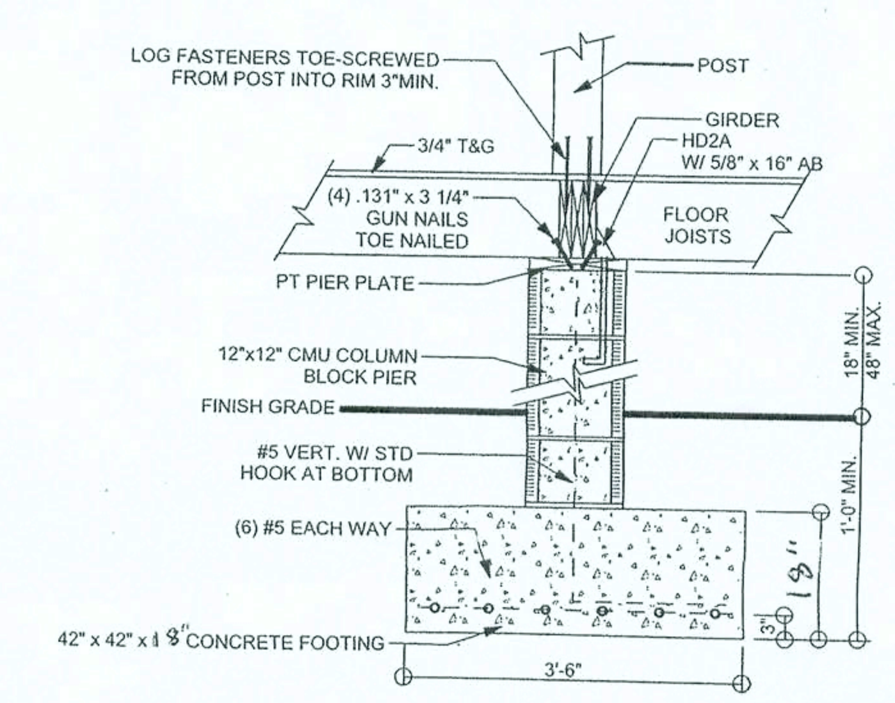

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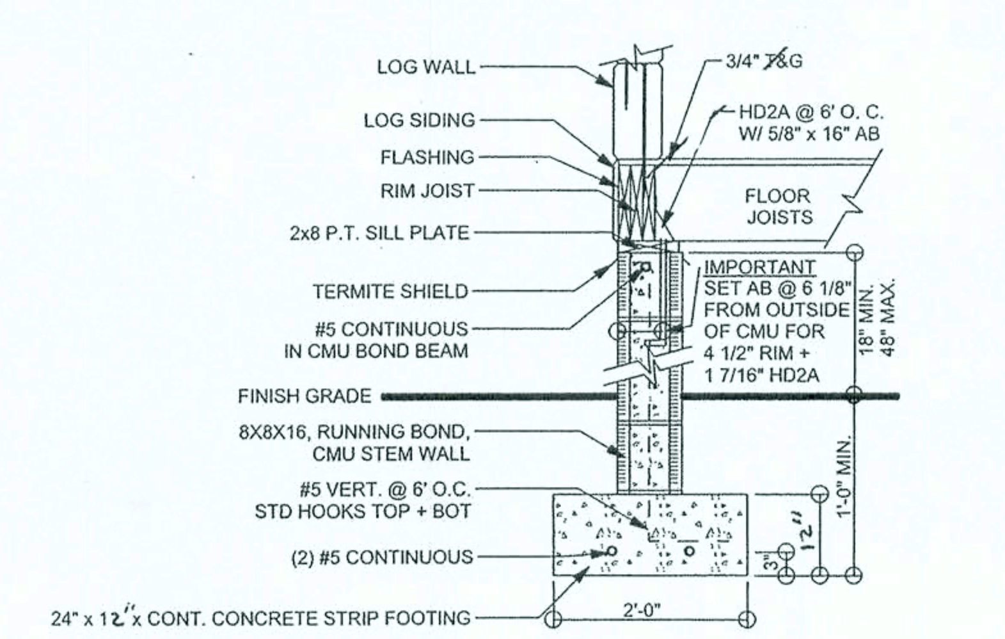

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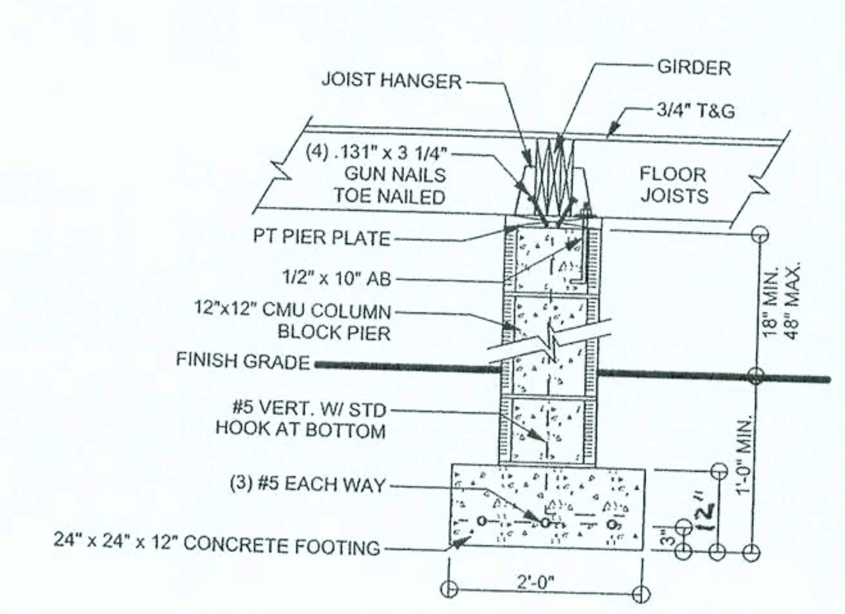

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CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE F'c = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C 1116 WHEN REQUESTED BY THE BUILDING OFFICIAL.

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAPS SPLICES 40 * DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-95 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 23 INCHES.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

CONCRETE BLOCK: ASTM C-90 WITH MEDIUM SURFACE FINISH, F'm = 1500 PSI.

MORTAR: TYPE M OR N FOR ALL MASONRY UNITS.

GENERAL CRAWLSPACE NOTES:

1.) SOIL BEARING PRESSURE IS ASSUMED TO BE A MINIMUM OF 1000 PSF. IF SOIL CONDITIONS ARE FOUND TO BE LESS THAN THE ASSUMED, CONTACT A LOCAL STRUCTURAL ENGINEER FOR A RE-EVALUATION OF FOUNDATION PLAN.

2.) 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

3.) DROP PORCH AND DECK PIER HEIGHT SO THAT TOP OF DECKING IS 5 5/8" BELOW MAIN HOUSE SUBFLOOR.

4.) FIREPLACE DIMENSIONS AND SPECIFICATIONS TO BE VERIFIED WITH OWNER BEFORE CONSTRUCTION.

5.) 12" x 12" FOUNDATION PIERS WITH 24" x 24" CONCRETE FOOTINGS ARE SHOWN. REINFORCE FOOTING WITH (3) #5 REBARS EACH WAY. 8" x 16" CMU PIERS MAY BE USED INSTEAD OF 12" x 12". ADJUST FOOTING SIZE AND REBAR NUMBER ACCORDINGLY.

6.) FOR REBAR PLACEMENT IN EXTERIOR FOUNDATION WALL FOOTING SEE "FOUNDATION/ BASEMENT" IN THE CONSTRUCTION DETAIL SHEETS.

7.) ALTHOUGH NO FOUNDATION VENTS ARE SHOWN, CONTRACTOR IS RESPONSIBLE FOR LOCATING AND INSTALLING VENTS. THE MINIMUM NET AREA OF VENT OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF CRAWLSPACE. ONE SUCH OPENING SHALL BE WITHIN 3 FT. OF THE CORNER OF THE BUILDING. FOR EXCEPTIONS SEE SBC.

8.) CRAWL SPACE HEIGHT TO BE A MINIMUM OF 18" FROM BOTTOM OF FLOOR JOIST TO TOP OF FINISH GRADE OR PER LOCAL CODE - WHICHEVER IS GREATER.

9.) 16" x 16" FULLY GROUTED MASONARY BLOCK COLUMN REQ'D @ EA. FOUNDATION END OF THE MULTIPLE 2X10 & GLULAM GIRDERS. REINFORCE EACH CELL w/ (1) #5 REBAR MIN. BOLT WOOD SEAT ATOP COLUMN FOR GIRDER TO BEAR UPON.

FOOTING SCHEDULE

MARK	MARK	REINFORCING
F0	2'-0" x 12" x CONT.	3 #5 BARS CONTINUOUS
F1	2'-0" x 2'-0" x 12"	3 #5 BARS EACH WAY
F2	3'-0" x 3'-0" x 18"	5 #5 BARS EACH WAY
F3	2'-0" x 3'-0" x 18"	#5 BARS @ 6" O.C.
F4	3'-0" x 5'-0" x 18"	#5 BARS @ 6" O.C.
F5	3'-0" x 8'-0" x 18"	#5 BARS @ 6" O.C.
F6	4'-0"x4'-0"x24"	7 #5 Bars Each Way
F7	2'-6" x 2'-6" x 15"	3 #5 BARS EACH WAY
F8	3'-6" x 3'-6" x 24"	6 #5 BARS EACH WAY

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

IMPORTANT NOTES READ CAREFULLY
FINAL PLANS

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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

3.2
SHEET NUMBER

CONNECTOR TABLE

ALL CONNECTORS ARE SIMPSON, UNO.
USE FASTENERS SPECIFIED IN THIS TABLE, UNO.

UPLIFT (LB.)	TRUSS CONNECTOR	TO PLATE	TO RAFTER
455	H3	4-8d	4-8d
1450	HTS20	10-10d or 12-10dx1.5	10-10d or 12-10dx1.5
1600	H16	10-10dX1.5	2-10dx1.5
4200	MGT	5/8" THD. ROD	22-10d
UPLIFT (LB.)	**STRAP CONNECTOR**	**TO ONE MEMBER**	**TO OTHER MEMBER**
885	SP4	6-10dx1.5	N/A
1005	CS20	9-8d or 7-10d	9-8d or 7-10d
1295	LSTA21	8-10d	8-10d
1360	SPH4	12-10dx1.5	N/A
1650	CS16	14-8d or 11-10d	14-8d or 11-10d
UPLIFT (LB.)	**COLUMN ANCHOR**	**TO COLUMN**	**TO FOUNDATION**
1350	LTT19	8-16d sinkers	5/8"x 16" AB
~~2310~~	~~LTTI31~~	~~18-10dx1.5~~	~~5/8"x 16" AB~~
2775	HD2A	2-5/8" bolts	5/8"x 16" AB
4175	HTT16	18-16d	5/8"x 16" AB
2300	ABU66	12-16d	5/8"x 16" AB

MANUFACTURER AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS. ALL CONNECTIONS EXPOSED DIRECTLY TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. LISTED LOADS ARE FOR SYP, 0.55 S.G., AND HAVE BEEN INCREASED FOR WIND DURATION, UNO, AND MUST BE ADJUSTED FOR OTHER SPECIES OR DURATION. STRAP CONNECTOR CAPACITY MAY BE REDUCED PROPORTIONALLY TO NUMBER OF FASTENERS.

STRUCTURAL CONNECTORS: MANUFACTURER AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS. ALL CONNECTIONS EXPOSED DIRECTLY TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH SIZE AND MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: STEEL WASHER SIZES AS FOLLOWS: 1/2" BOLTS - 2" x 2" x 9/64"; 5/8" BOLTS - 3" x 3" x 9/64"; 3/4" BOLTS - 3" x 3" x 9/64"; 7/8" BOLTS - 3" x 3" x 5/16"; UNO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC PRODUCT APPROVAL AS HAVING EQUAL STRUCTURAL VALUES.

LOG WALLS: ALL LOG WALLS ARE MILLED EASTERN WHITE PINE LOGS WITH FLAT STACKING SURFACES. EACH COURSE IS ATTACHED TO THE COURSE BELOW WITH OLYHOG SCREW FASTENERS. FASTENER SPACING IS BASED ON REQUIRED PULLOUT STRENGTH FOR WIND UPLIFT AND REQUIRED SHEAR STRENGTH FOR LATERAL WIND LOADS.

OLYHOG FASTENERS: OLYHOG FASTENERS ARE SELF DRILLING, HIGH STRENGTH, Ft = 111ksi, STEEL WOOD SCREWS WITH 0.23" SHANK DIAMETER. ALLOWABLE PULLOUT STRENGTH IN SOUTHERN YELLOW PINE= 1473 LB = (307LB/ IN. * 1.6 * 3") IS BASED ON NDS1997, TABLE 9.2A 5/16" LAG SCREW, 3" THREAD, SYP, .55SG. ALLOWABLE SHEAR IS PER ROB PICKETT, NAHB, WOOD COUNCIL, BASED ON NDS1997 WORST CASE OF FOUR SHEAR MODES ALLOWABLE SHEAR IN SOUTHERN YELLOW PINE= 436 LB = (273 LB * 1.6). VALUES ARE INCREASED 1.6 FOR WIND DURATION.

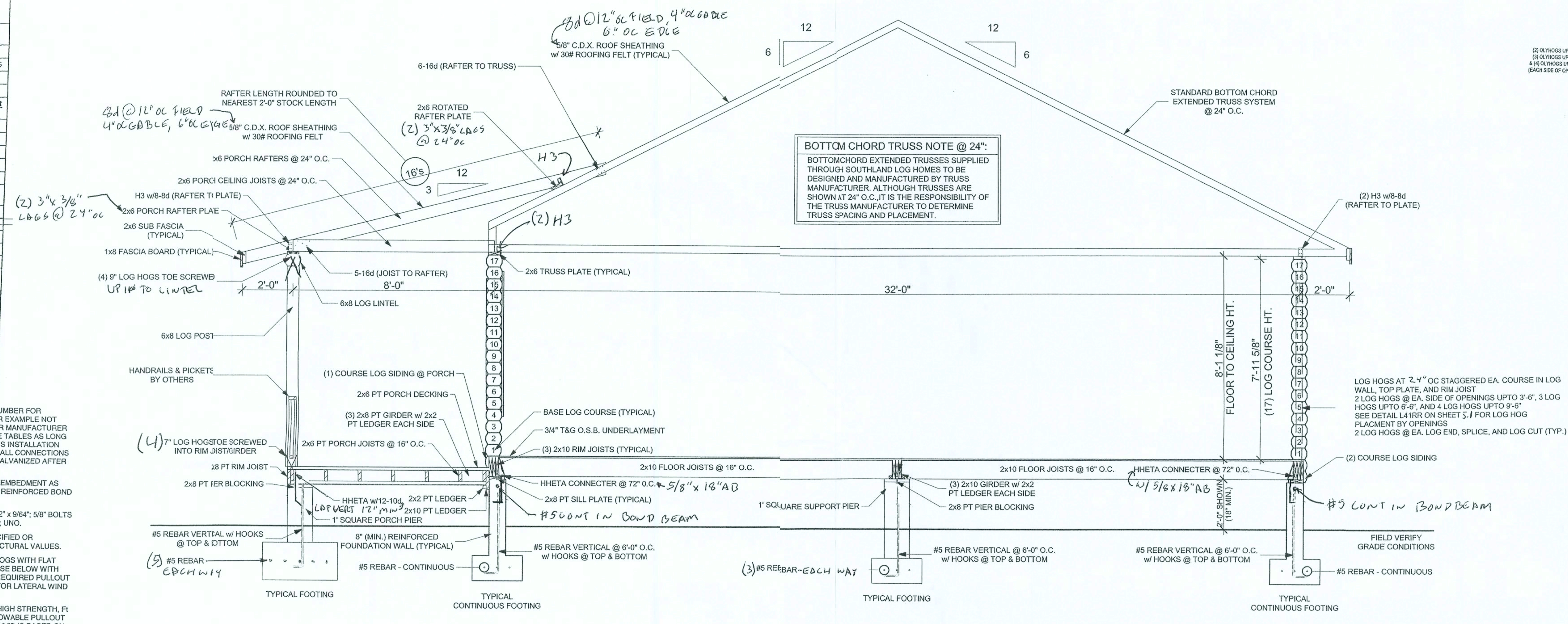
INTERIOR STUDS WALLS: ALL INTERIOR STUD WALLS ARE NON-LOAD BEARING; UNO. ROOF LOADS TO BE CARRIED ON LOG WALLS OR ROOF BEAMS WITH INTERIOR SUPPORT COLUMNS; UNO. BEARING WALL STUDS TO BE SPF#2; UNO. NON-LOAD BEARING WALL STUDS MAY BE SPF, STUD GRADE. ALL PLATES NOT PROTECTED FROM MOSTURE TO BE SYP#2 PT.

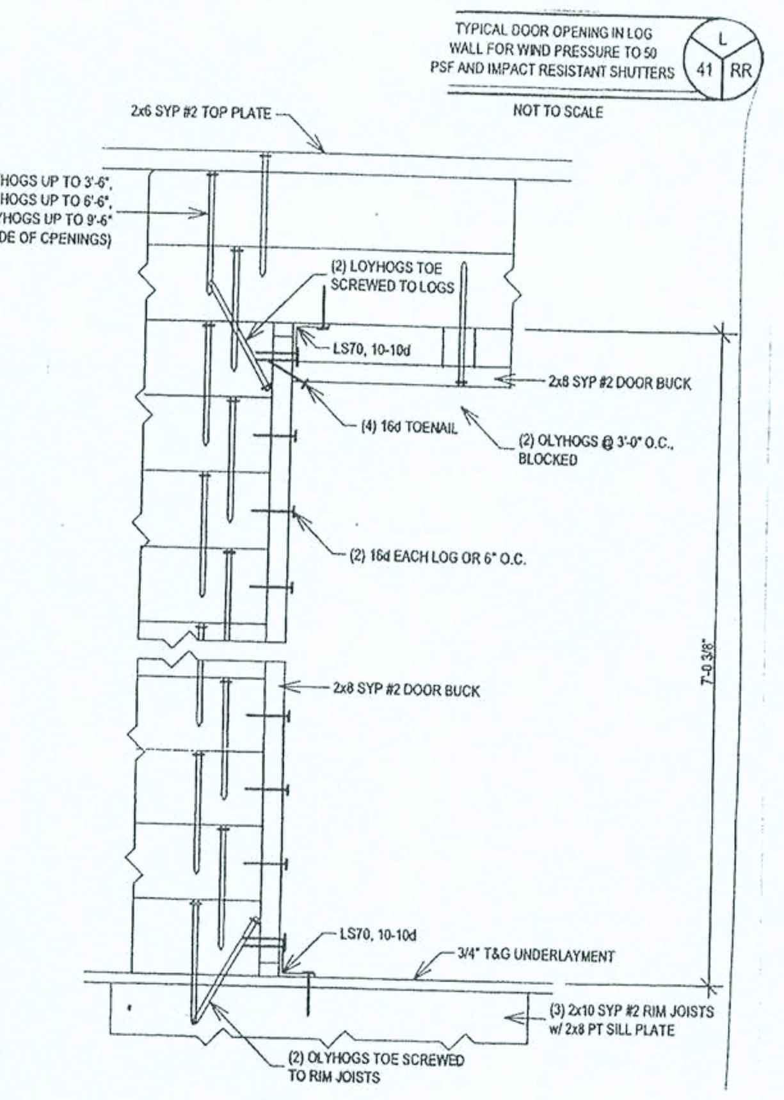
EXTERIOR STUDS WALLS: ALL EXTERIOR STUD WALLS ARE LOAD BEARING SHEAR WALLS WITH SPF#2 STUDS, SYP#2 PT BOTTOM PLATE, SPF#2 DOUBLE TOP PLATE WITH 10-16d NAILS PER LAP SPLICE; SP4, 6-10d "U"STRAP TOP AND BOTTOM AT 48"OC; 7/16" OSB SHEATHING, WITH PANEL EDGES FULLY BLOCKED, FASTENED WITH 8d COMMON NAILS, SPACING 6"OC PANEL EDGES, 12"0C INTERMEDIATE FRAMING MEMBERS; UNO.

GLULAM BEAMS: GLULAM BEAM, GLB, 24F-V3SP, Fb = 2.4ksi, E = 1800ksi; UNO.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED OVER A MINIMUM OF 3 FRAMING MEMBERS WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS, SPACING 6"OC PANEL EDGES, 12"0C INTERMEDIATE MEMBERS, 4"OC GABLE ENDS AND DIAPHRAGM BOUNDARY; UNO.

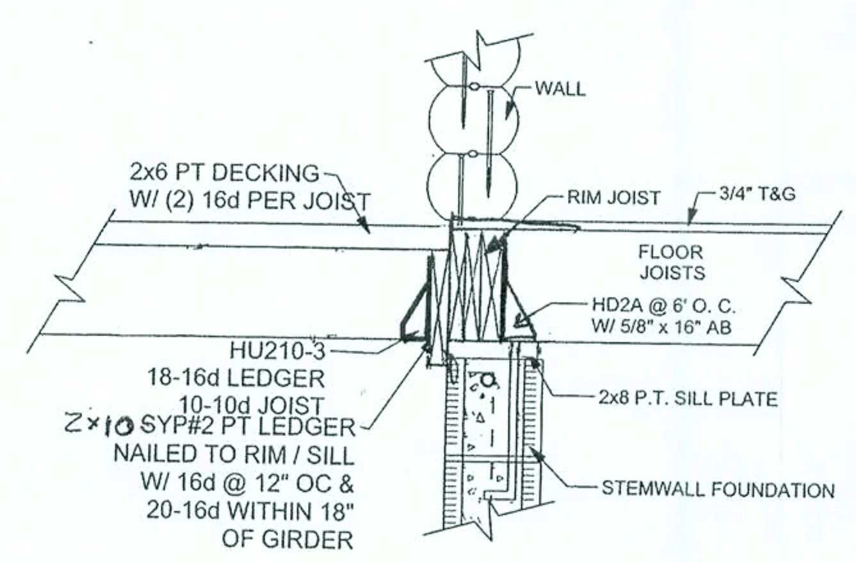
TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBC 2004 TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.





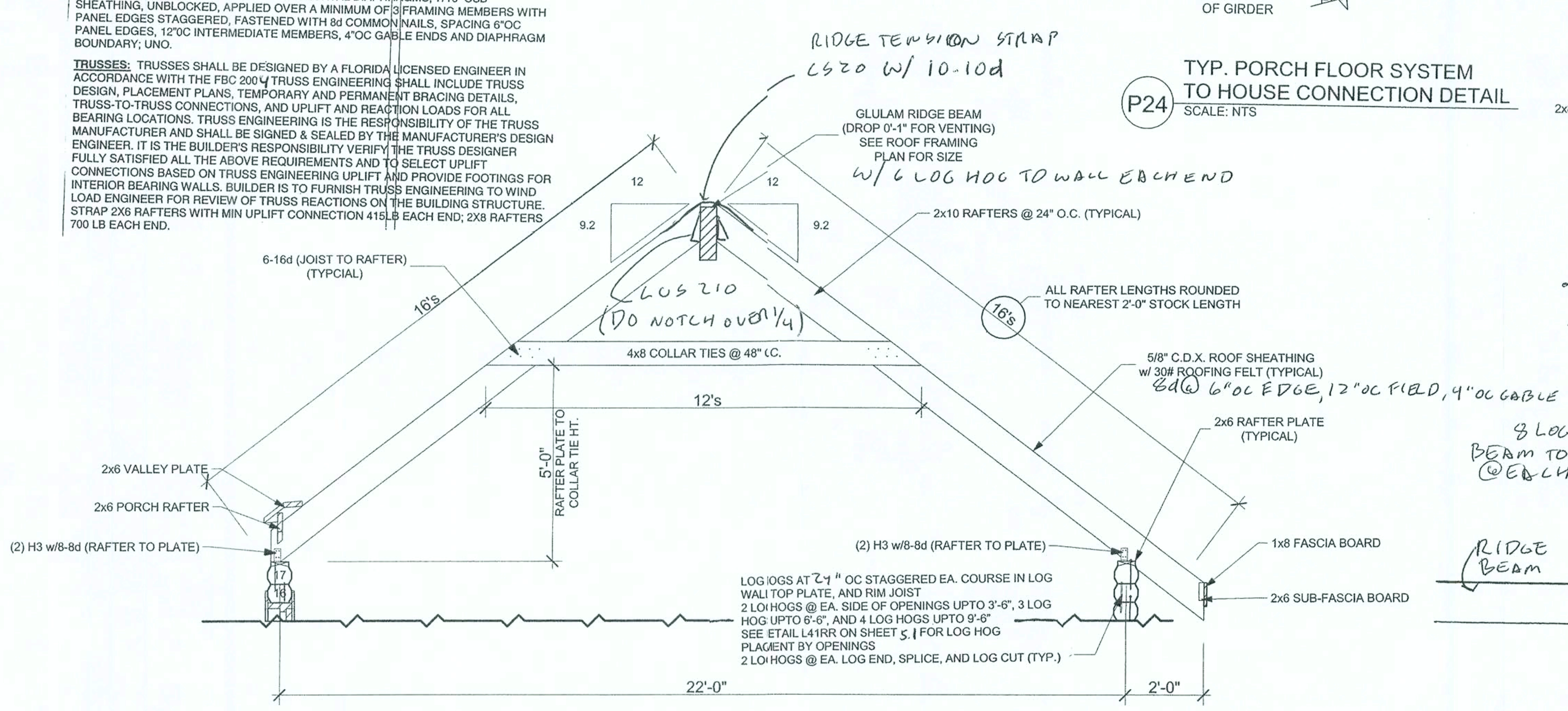
TRANSVERSE SECTION -A-

SCALE : 3/8" = 1'-0"



P24 TYP. PORCH FLOOR SYSTEM TO HOUSE CONNECTION DETAIL

SCALE: NTS



TRANSVERSE SECTION -B-

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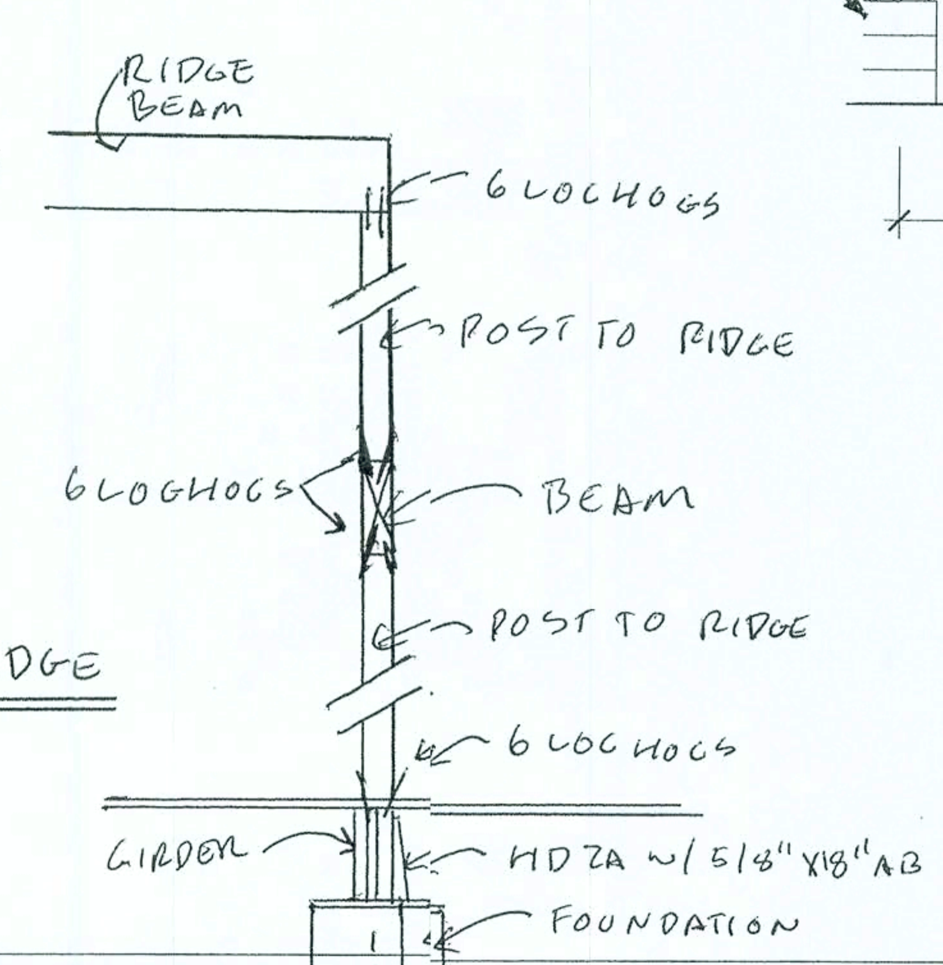

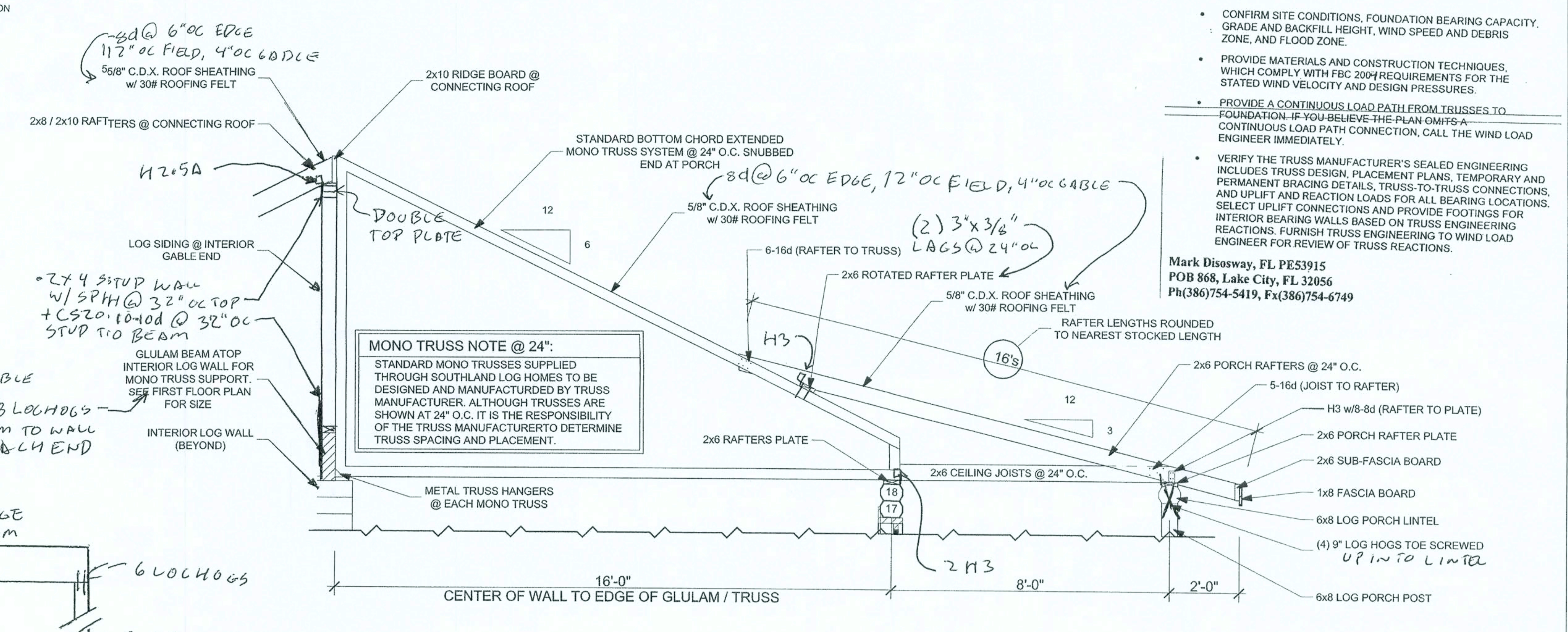

TRANSVERSE SECTION -C-

SCALE: 3/8"=1'-0"

WIND LOAD ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN, AND THE STRUCTURAL PORTIONS OF THE PLAN RELATING TO WIND LOADS COMPLY WITH FLORIDA BUILDING CODE 2004. SECTION R 301.2.1 BEST OF MY KNOWLEDGE.

BUILDER'S RESPONSIBILITY:

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.

- CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.
- PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBC 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.
- ~~PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMITS A~~ CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.
- VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. SELECT UPLIFT CONNECTIONS AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS BASED ON TRUSS ENGINEERING REACTIONS. FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS.

Mark Disosway, FL PE53915
POB 868, Lake City, FL 32056
Ph(386)754-5419, Fx(386)754-6749

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS.

IMPORTANT NOTES READ CAREFULLY
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LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA

DELIVERY COUNTY:	COLUMBIA
DELIVERY STATE:	FL
CUSTOMER ID NUMBER:	1+35H+752
SITE ADDRESS:	182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

5.1
SHEET NUMBER

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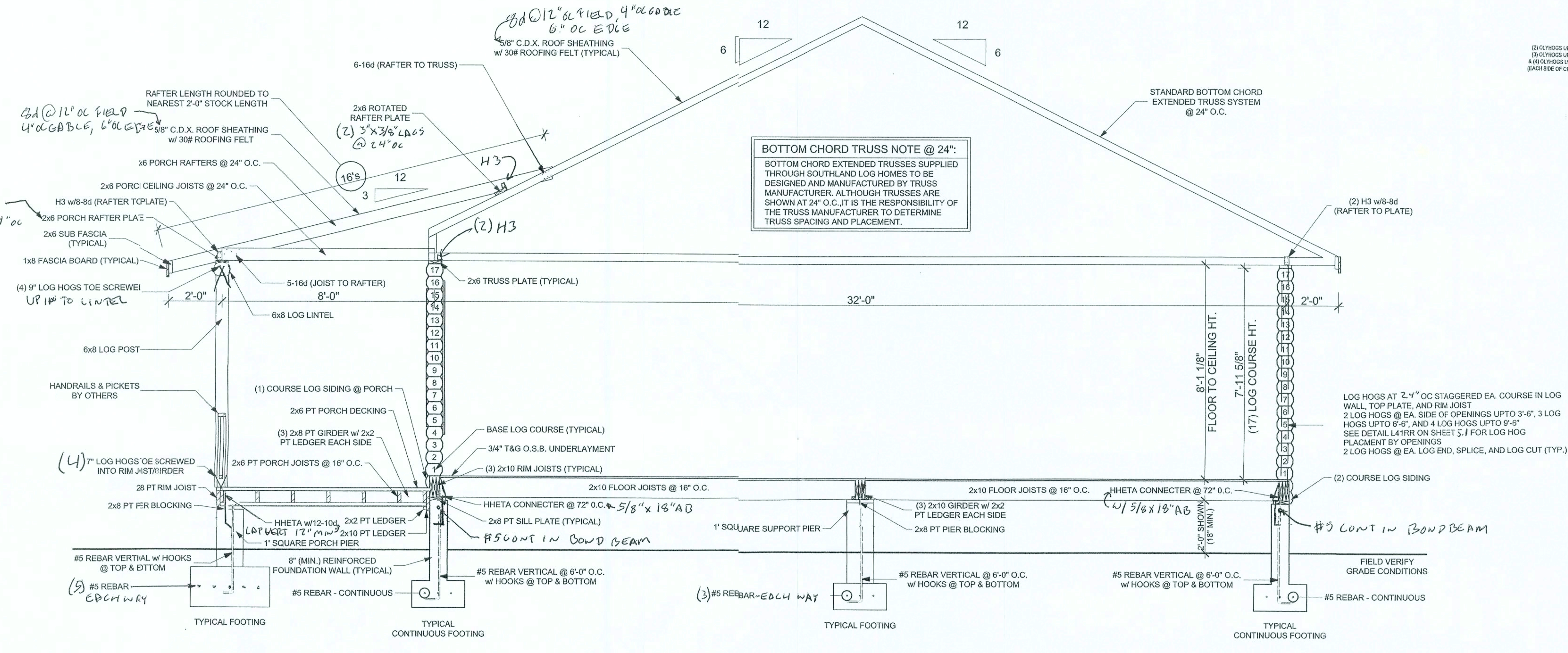
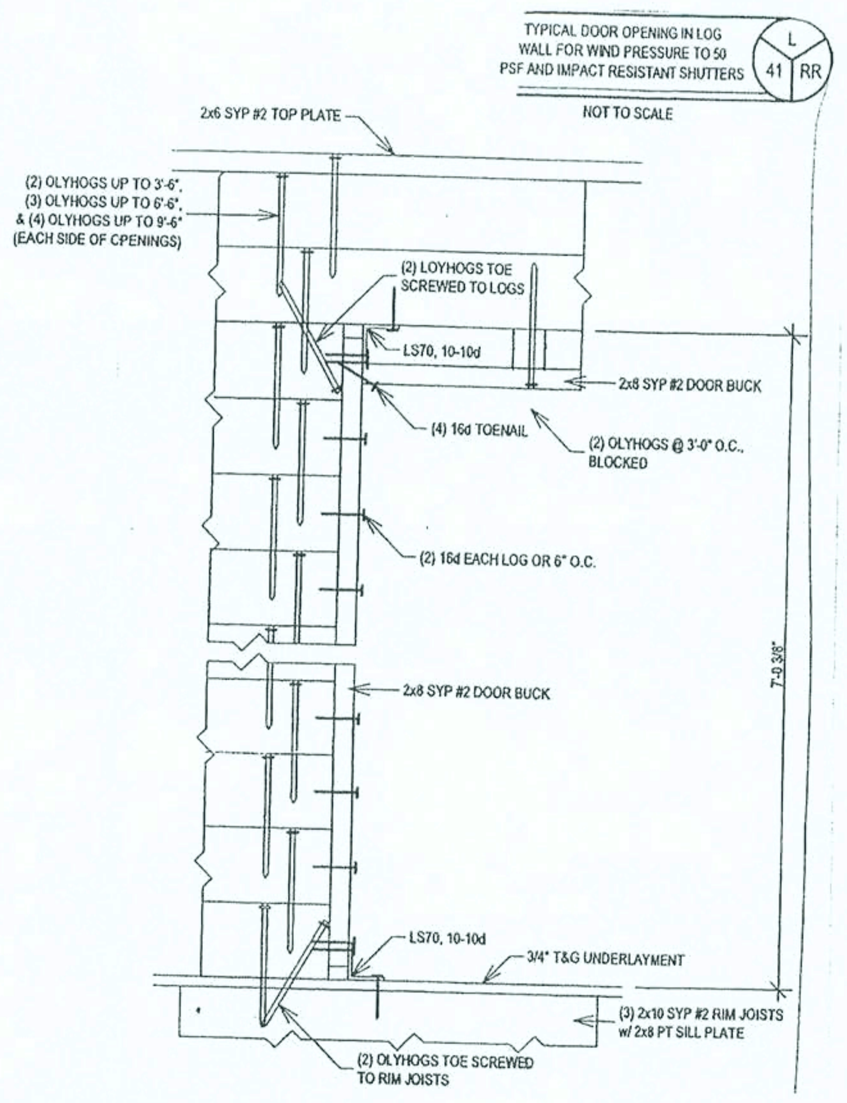
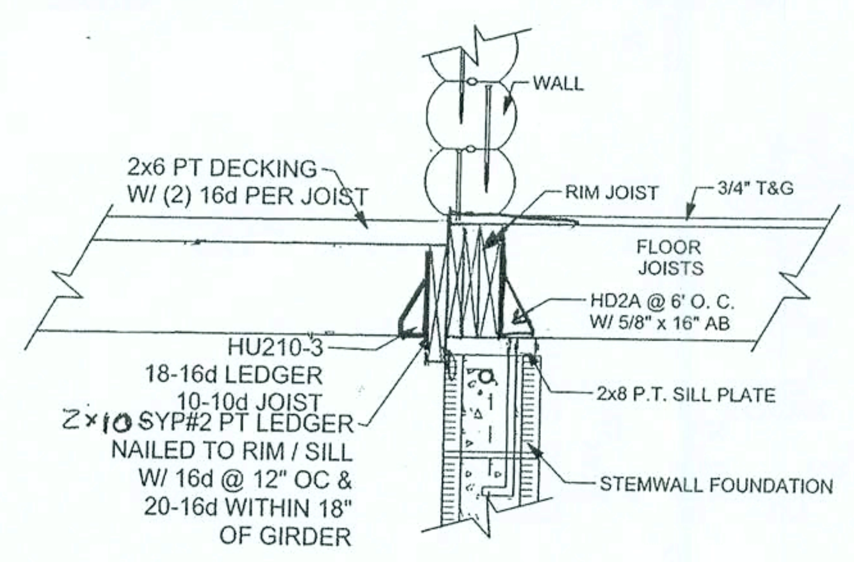


TRANSVERSE SECTION -A-

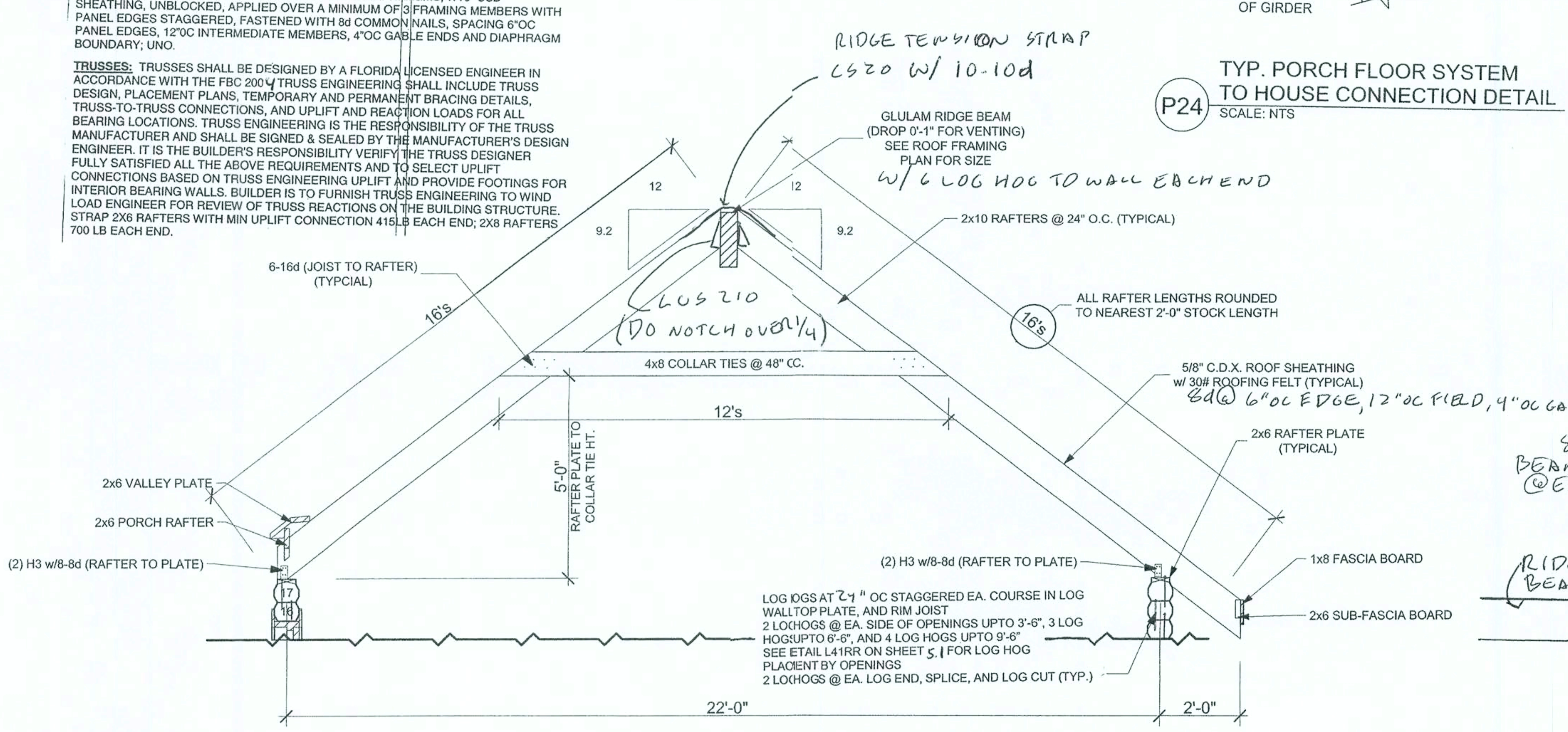
SCALE : 3/8" = 1'-0"





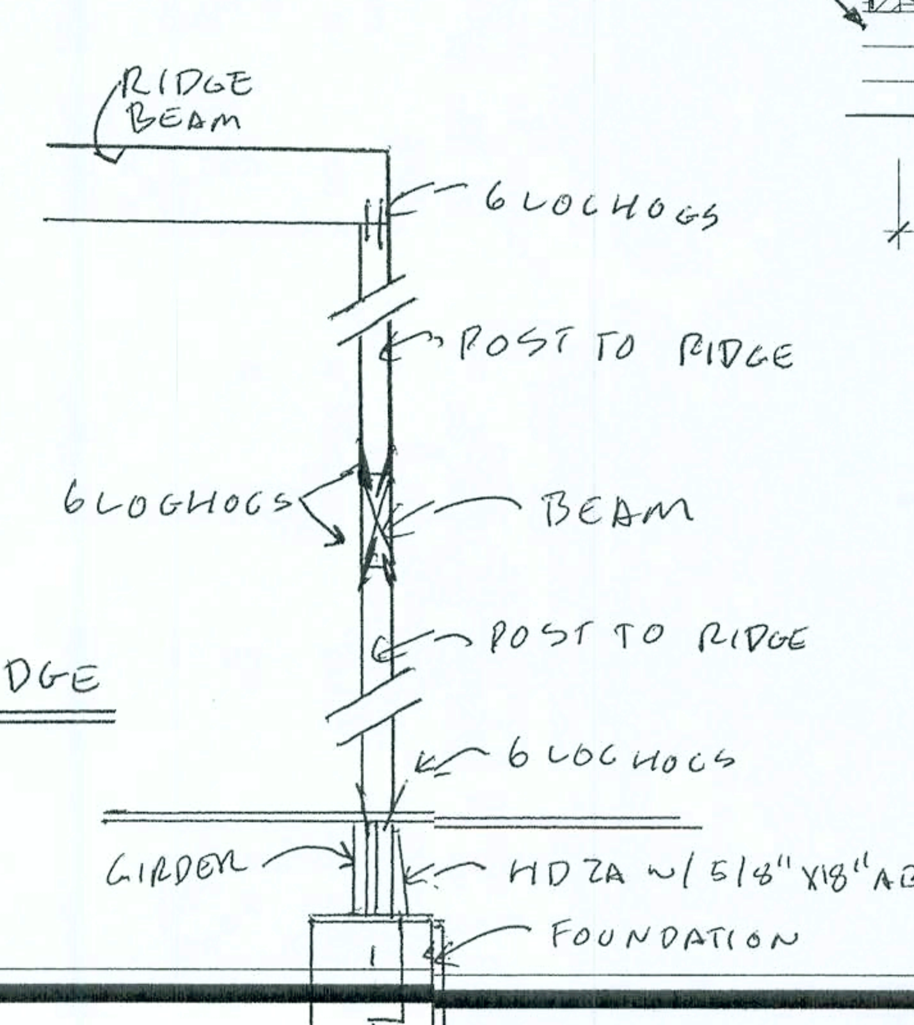
P24 TYP. PORCH FLOOR SYSTEM TO HOUSE CONNECTION DETAIL

SCALE: NTS

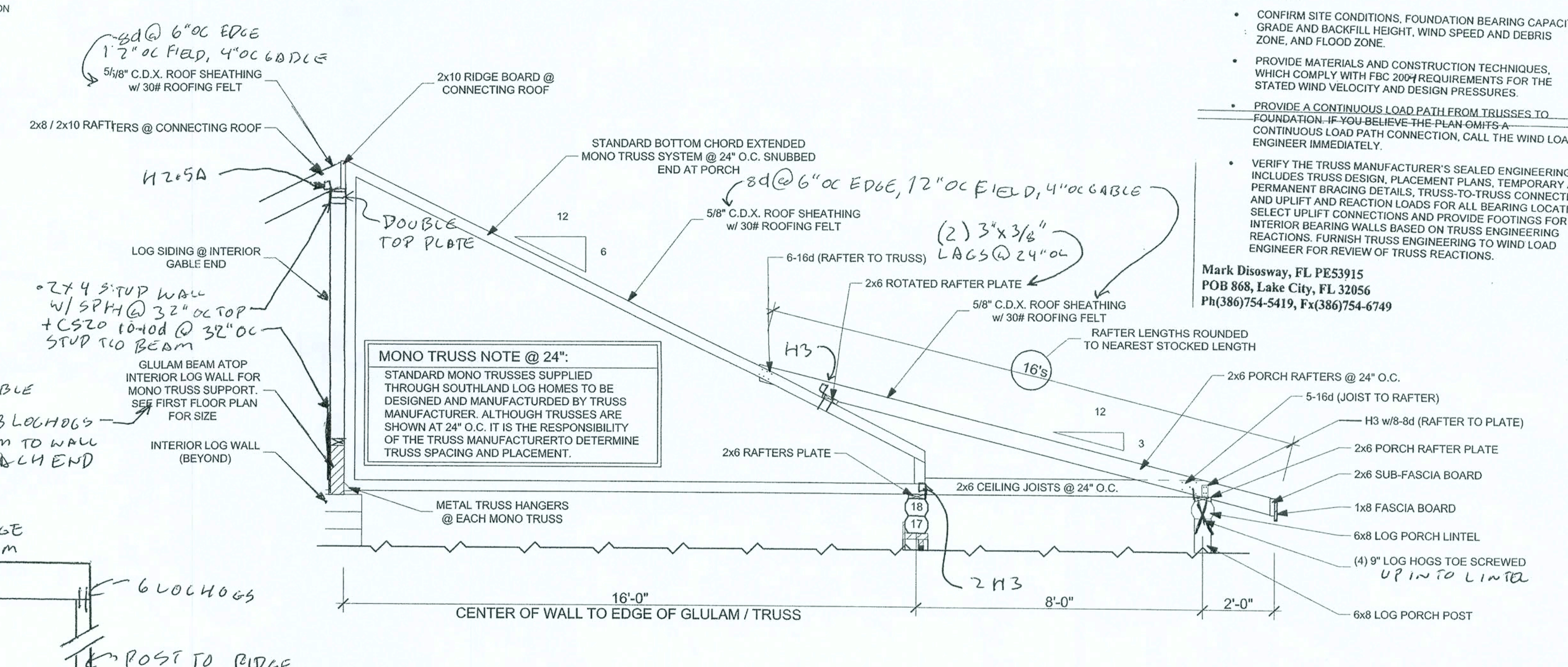


TRANSVERSE SECTION -B-

SCALE : 3/8" = 1'-0"



POST TO RIDGE



TRANSVERSE SECTION -C-

SCALE: 3/8"=1'-0"

WIND LOAD ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN, AND THE STRUCTURAL PORTIONS OF THE PLAN RELATING TO WIND LOADS COMPLY WITH FLORIDA BUILDING CODE 2004, SECTION R 301.2.1 BEST OF MY KNOWLEDGE.

BUILDER'S RESPONSIBILITY:

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.

- CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.
- PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBC 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.
- PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO ~~FOUNDATION. IF YOU BELIEVE THE PLAN OMITS A~~ CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.
- VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. SELECT UPLIFT CONNECTIONS AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS BASED ON TRUSS ENGINEERING REACTIONS. FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS.

Mark Disosway, FL PE53915
POB 868, Lake City, FL 32056
Ph(386)754-5419, Fx(386)754-6749

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

REFER TO SOUTHLAND LOG HOMES' CONSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS

IMPORTANT NOTES READ CAREFULLY
FINAL PLANS

WARNING!

This Southland Log Home package has been designed according to the purchase contract and applicable building codes and must be constructed in accordance with these plans. All unauthorized deviations become the responsibility of the owner as it may result in unsafe conditions, structural concerns, violate building codes and will void the warranty on this product.

LOG STYLE & PROFILE
6x8 STOCKADE
YP
R/R
ROUND / ROUND

REVISIONS:

MIKE & NORMA MUCHA
DELIVERY COUNTY: COLUMBIA
DELIVERY STATE: FL
CUSTOMER ID NUMBER: 1+35H+752
SITE ADDRESS: 182 W. VOYAGER CT. LAKE CITY, FL 32025

SOUTHLAND LOG HOMES
7521 BROAD RIVER ROAD
P.O. BOX 1668
IRMO, SC 29063-1668
800-845-3555 USA
803-781-5128 FAX

MODEL: CUSTOM
DESIGNED BY: MRL
CHECKED BY: AJJ
PLAN DATE: 01/17/06
DELIVERY DATE: 03/28/06

0603673
PROJECT NUMBER

5.1
SHEET NUMBER

1/20/2006 11:50 AM ARCHICAD VERSION 8.1