GENERAL SPECIFICATIONS / NOTES

Log Cabin Homes' documents are drawn to meet or exceed the intent of International Residential Code (IRC). Local and/or site conditions may require these specifications to be revised to achieve code compliance. In the event that the specification revisions are required, they are the sole responsibility of the owner.

I. PLANS
- a. Only the written dimensions are to be used for construction purposes. Do not scale drawings.
- b. The contractor (builder) is responsible for checking and verifying all dimensions, details and conformance to all local codes on this drawing. Any discrepancies shall be reported immediately to Log Cabin Homes Ltd. before proceeding with that portion of work.
- c. No structural members shall be altered (i.e... cut, removed, replaced, etc.) from original framing design without the expressed written consent from a licensed Architect/Engineer.

II. FLOOR LOADING AND DESIGN
- a. First floor loading designed for 40 LB/SF live load and 10 LB/SF dead load. Second floor loading designed for 40 LB/SF live load and 10 LB/SF dead load. Total loading 50 LB/SF, 50 LB/SF respectively.
- b. Unless otherwise specified floor joists to be of S.Y.P. #2 - K.D. OR OF S.P.F.- #2 K.D. construction grade lumber.
- c. Unless otherwise specified floor carrying beams to be of S.Y.P. #2 - K.D. or of S.P.F. #2 - K.D. construction grade lumber.
- d. Interior wall framing to be 2 x 4 S.P.F. - K.D. @16" O.C. except as noted otherwise on framing plans.

III. HEADERS
- a. Unless otherwise specified all interior door headers shall be 2 X 8 #2 K.D. S.Y.P. with 1/2" plywood spacers.
- b. Unless otherwise specified all exterior door and window headers in excess of 4 ft. shall be constructed by bolting log courses 12 & 13 together with 3/8" x 10" lag bolts with washers 24"oc. max. SUPPLIED BY OWNER. or within 8" of the opening. Some materials may need to be SUPPLIED BY OWNER.

IV. ROOF FRAMING
- a. Unless otherwise specified all roof rafters to be of S.Y.P. #2 - K.D. or of S.P.F. #2 - K.D. construction grade lumber.
- b. Roof Trusses - Wood trusses shall be designed by the manufacturer. Design of roof trusses shall conform to state and local loading specifications of construction site.
- c. Owner to supply ice & water shield or flashing for all valleys.
- d. Size and placement of all metal ties to be determined by state and local building codes and/or accepted practices. SUPPLIED BY OWNER.
- e. Gutters are recommended for all log building roofs to keep and direct rain water away from your home. Professional installation is recommended to insure correct placement of gutters and down spouts and diversion of water away from your home's foundation and your home!

V. INSULATION
- a. Unless otherwise specified all cavity walls, roof/ceilings exposed to ambient conditions and (when required) floors shall be insulated with fiberglass batts of sufficient thickness to satisfy the maximum thermal transmission requirement dictated by state and local codes.
- b. The vapor barrier side of the insulating batts shall be installed on the warm side of the walls, floors and ceilings.
- c. When required the foundation wall shall be insulated with water resistant rigid insulation of sufficient thickness to meet the minimum resistance value required by state or local codes. SUPPLIED BY OWNER.

VI. FOUNDATIONS
- a. Foundation materials and installation to be provided by the owner including anchor bolts, masonry, concrete post bases, accessories, and labor. It is the owners responsibility to have plans engineered by a licensed Architect\Engineer.
- b. Concrete, foundation walls, piers, reinforcing, footing size & depth, waterproofing, backfill and perimeter shall be professionally designed for specific site conditions and in compliance with state and local codes.
- c. Basement floors to be 4" concrete slab on 4" sand fill w/6 x 6 10/10 KVLF; w/6 mil poly-vapor barrier.
- d. The following are not shown and should be located by the owner/contractor consistent with local practice, codes, and site conditions: vents (size and position), windows, crawl space access, plumbing, break line, bulkhead, lintels, etc.
- e. Placement of reinforcing steel and metal ties to be determined by state and local building codes and/or accepted practices.
- f. Sills shall be anchored by 1/2" bolts spaced not more than 6'-0" O.C. and which are embedded at least 8" into concrete or 15" into masonry units.
- g. Assumed soil bearing capacity 2000 psf
- h. All concrete shall be 2500 psi (min)

VII. FIRST FLOOR FRAMING
- a. Unless otherwise specified, the entire first floor system including sill plate, girders, joists, blocking or bridging, and decking to be provided by owner.
- b. Unless otherwise specified, all deck material including joist, nailers, girders, and decking to pressure treated and supplied by owner.
- c. Floor joists to be doubled under partitions parallel to run of joists.

VIII. STAIRS
- a. Closed riser stair unit - Materials and construction shall ensure minimum loading of 75 PSI. Tread depth 10" minimum. Riser shall not exceed 7 3/4". Nosing shall not extend beyond riser board more than 1 1/8".
- b. A head height clear of obstructions shall be maintained at 6'-8" (min).

IX. FIREPLACE - CHIMNEYS
- a. Contractor shall be responsible to purchase locally specific additional framing & building materials to accommodate any fireplace - chimney installation.
- b. All references to fireplace, chimney, hearth & footings are for suggested locations only.
- c. Contractor is to make sure that fireplace is designed and built to conform to all applicable building codes.
- d. No building structure shall bear on or be within 2" of fireplace & chimney.
- e. Such spaces must be fire stopped with non-combustable material.

X. INTERIOR PARTITIONS
- a. All interior partitions to be 2x4 (3 1/2") unless noted otherwise. Plumbing walls to be 2x6 (5 1/2") unless noted otherwise.
- b. All interior partitions that intersect log walls shall be constructed as per stud pilaster details in standard details.

** WARNING **

SOME MATERIALS NOTED ON THESE PLANS ARE SUBJECT TO CHANGE BEFORE DELIVERY OF THE LOG HOME PACKAGE. THIS COULD CAUSE THE NEED TO RESUBMIT ANY PLANS IN THE PERMIT PROCESS. IF THIS BECOMES A FACTOR NEW PLANS WILL BE SENT OUT UPON RESOLUTION OF ANY PLAN CHANGE. TAKE NOTE OF THE REVISION DATES IN THE BOTTOM RIGHT CORNER OF EACH PAGE TO KEEP THE CORRECT SET OF PLANS CURRENT AND DISCARD ANY OUTDATED SETS OF PLANS. LOG CABIN HOMES SHALL NOT BE HELD RESPONSIBLE FOR ANY FEES, COSTS OR DELAYS THAT RESUBMISSION OF NEW PLANS MAY INCUR.

** WARNING **

LCH PROVIDES PLANS AND CONSTRUCTION GUIDES WITH INSTRUCTIONS SUFFICIENT FOR QUALIFIED EXPERIENCED LOG HOME BUILDERS

INEXPERIENCED INDIVIDUALS SHOULD SEEK MORE DETAILED TRAINING BEFORE UNDERTAKING A LOG HOME CONSTRUCTION PROJECT.

** WARNING ** LOG SHRINKAGE **

To prepare your home for log shrinkage, you or your contractor will need a moisture meter to test the logs prior to construction.
WARNING Construction to accommodate for log shrinkage is the contractor's responsibility. Owner to provide extra materials needed for adjustments.
Suggestions: (to be determined at the time of construction with your contractor)
-Install Jack-screws on top of post and any other critical area that may need to be adjusted for settling.
-Trim nail studs down at contractor's discretion.
-Cut slots in your buck lumber for windows and doors and post or studs that are attached to your exterior logs vertically for dry-in construction.
-Notches above the windows and doors need to be deeper than 1 1/2" according to the size of the log and the moisture content at the contractor's discretion.

** DISCLAIMER **

LOG CABIN HOMES SHALL NOT BE HELD RESPONSIBLE FOR ANY CLERICAL OR TYPOGRAPHICAL ERRORS UPON THESE PLANS. IN THE EVENT OF ANY DISCREPANCIES, CONTRACT SHALL SUPERSEDE THESE BLUEPRINTS. BEFORE PRODUCTION AND DELIVERY, ALL FINAL PLANS ARE SENT TO OWNER FOR FINAL REVIEW. A SIGNED FINAL SET OF PLANS IS TO BE RETURNED BACK TO LOG CABIN HOMES ONCE REVIEWED, WITH SIGNED CONTRACT AND SIGNED FINAL BLUEPRINTS ON FILE LOG CABIN HOMES SHALL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES THEREAFTER. LOCAL BUILDING CODE REQUIREMENTS ALWAYS SUPERSEDE THE SPECIFICATIONS AND DETAILS OF THESE PLANS. LOCAL BUILDING CODE COMPLIANCE IS THE RESPONSIBILITY OF THE OWNER/ CONTRACTOR.

SEE YOUR CONTRACT FOR YOUR
LOG CABIN HOMES
PACKAGE MATERIAL LIST

MATERIALS INCLUDED AS PER CONTRACT STATES

ALL OTHER MATERIALS REQUIRED FOR CONSTRUCTION AND FINISH OF THIS HOME ARE TO BE SUPPLIED BY THE OWNER AND/OR CONTRACTOR. SEE YOUR CUSTOMER SERVICE REPRESENTATIVE TO INQUIRE ABOUT MATERIALS THAT ARE NOT INCLUDE BUT AVAILABLE TO BE ADDED TO THE PACKAGE.

LCH DOES NOT RECOMMEND STARTING ANY CONSTRUCTION UNTIL FINAL BLUEPRINTS HAVE BEEN REVIEWED AND SIGNED BY OWNER & TAKE-OFF COMPLETE

NOTE: L.C.H. RESERVES THE RIGHT TO SUBSTITUTE EQUAL OR BETTER QUALITY MATERIALS PER QUANTITY IN EACH HOME.
L.C.H. SPECIFICATIONS ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE.

NOTE: TRUSSES, POST & BEAM OR PURLIN ATTACHMENTS
TRUSS PLATES, BOLTS AND FASTENERS ALL BY OWNER. ALL TRUSS, BEAM OR POST LUMBER IS SHIPPED IN LINEAR FOOT & IS TO BE CUT ON SITE TO FIT. POST & BEAM CONNECTIONS ARE BY OWNER AND SHOULD BE REVIEWED BY A LOCAL CONSULTANT AS WELL AS DECORATIVE PURLINS OR BRACKETS AT EXTERIOR OF HOME.

NOTE: PRECUT PACKAGES
ALL PRECUTTING, NOTCHING, DOVETAILING, FALSE LOG CORNERS, AND OTHER JOINERY, ARE CUT TO A TOLERANCE OF LESS THAN 3". LINEAL LOG BUTT JOINTS ARE CUT TO A TOLERANCE OF LESS THAN 3", ADDITIONAL PRECUTTING, NOTCHING, SCRIBING, CHINKING, CAULKING, SHIMMING OR BACKER ROD MAYBE REQUIRED ON THE JOB SITE BY THE BUILDER.

NOTE: HOMESTEAD GRADE-
ALL LOGS ARE PARTIALLY AIR DRIED AND GRADED BEFORE FINAL MILLING UNDER THE NATIONAL LUMBER GRADES AUTHORITY (NLGA) RULE 131C-STANDARD AND BETTER FOR POSTS AND TIMBERS OR EQUAL GRADE. THE NLGA RULE IS APPROVED AND ENFORCED BY THE CANADIAN LUMBER STANDARDS ACCREDITATION BOARD AND BY THE AMERICAN LUMBER STANDARDS BOARD OF REVIEW. THIS APPROVAL PROVIDES ACCEPTANCE UNDER ALL CANADIAN AND U.S. BUILDING CODES. A COPY OF THE GRADING RULES CAN BE OBTAINED FROM YOUR CUSTOMER SERVICE REPRESENTATIVE.

OPTIONAL PACKAGE

Log Cabin Homes recommends and sells, as an option, a package that includes the final caulking and exterior coating by Perma-Chink systems, Inc. when used and applied correctly, this product will reward you with a lifetime of satisfaction and protection for your home investment. This Package also includes borates, log screws, stains and top coats. Call your LCH customer service representative for special prices and more on the Perma-Chink System package and free color samples.

** WARNING **

ROOF SYSTEM IS DESIGNED FOR A 30# LOAD AND 100 MPH WIND DESIGN PRESSURE.
STRUCTURE IS NOT DESIGNED FOR SEISMIC ZONES. ALTITUDES OVER 5,000 ft. OR FLOOD ZONES.
ANY DEVIATIONS MAY REQUIRE AN UPGRADE OF YOUR PACKAGE.
PLEASE CONTACT YOUR CUSTOMER SERVICE REPRESENTATIVE FOR FURTHER INFORMATION AND DETAILS. PLEASE FILL OUT THE BELOW INFORMATION IF THERE IS ANYTHING THAT DIFFERS FROM ABOVE.

BUILDING DATA

GENERAL DATA:

PROJECT: SUSAN WOODLEY
PO BOX 39
OLIVIA, NC 28368

DELIVERY ADDRESS: 635 BARBECUE CHURCH RD
SANFORD, NC 27332
HARNETT COUNTY

REQUIRED DESIGN LOADS:

DESIGN WIND VELOCITY: PER ____ mph
SNOW LOAD: ENGINEERS psf
SEISMIC DESIGN CATEGORY: PLANS zone
HIGH ALTITUDE: NO

OWNER IS RESPONSIBLE FOR PROVIDING LCH WITH THE OFFICIAL INFORMATION ABOVE OR HAVE THE PLAN REVIEWED BY THIRD PARTY TO ENSURE THE HOUSE MEETS LOCAL REQUIREMENTS

PACKAGE INFORMATION:

MODEL: MILL CREEK
LOG SPECIES: EASTERN WHITE PINE
LOG STYLE: 8x6 CLASSIC "D"

WINDOW & DOOR SCHEDULE

WINDOWS

MARK	UNIT NO.	COLOR	MANUFACTURE	TYPE	GRILLE	FINISH	#	# TEMP.	DP RATING	ENERGY STAR RATING	INCLUDED HARDWARE	SGHC	U FACTOR	NOTES
1	3050 TWIN	WHITE	FLYSEM 1500	SINGLE HUNG	YES	VINYL	5	N/A	NONE	NONE	NO	.28	.35	DBL. PANE INSULATED, LOW-E
2	2480	WHITE	FLYSEM 1500	SINGLE HUNG	YES	VINYL	2	N/A	NONE	NONE	NO	.28	.35	DBL. PANE INSULATED, LOW-E
3	3020	WHITE	FLYSEM 1500	SINGLE HUNG	YES	VINYL	1	N/A	NONE	NONE	NO	.28	.35	DBL. PANE INSULATED, LOW-E
4	2820 TWIN	WHITE	FLYSEM 1500	SINGLE HUNG	YES	VINYL	1	1	NONE	NONE	NO	.28	.35	DBL. PANE INSULATED, LOW-E

OWNER TO VERIFY W/ LOCAL BUILDING DEPARTMENT WINDOW REQUIREMENTS PRIOR TO DELIVERY. WINDOWS CANNOT BE UPGRADED AFTER DELIVERY.

DOORS

MARK	UNIT NO.	COLOR	MANUFACTURE	TYPE	GRILLE	FINISH	#	NOTES
A	3068	PRIMED	THERMA TRU	ENTRY	YES	STEEL	1 RH	9 LITE OVER 2 PANEL

NOTES:
1. ALL GRILLES & SCREENS STANDARD UNLESS NOTED OTHERWISE ABOVE.
2. DUE TO MANUFACTURING CHANGES OR POSSIBLE TYPOGRAPHICAL ERRORS, THE OWNER/BUILDER IS RESPONSIBLE AND MUST PHYSICALLY VERIFY ALL ROUGH OPENING DIMENSIONS AGAINST EACH UNIT TO BE INSTALLED PRIOR TO SETTING LOGS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF LOG CABIN HOMES (LCH). ADVISE YOUR BUILDER THAT AN ADDITIONAL 3" IN WIDTH AND 1¼" IN HEIGHT IS TO BE ADDED TO THE ROUGH OPENING OF THE WINDOWS AND IS REFERRED TO AS THE LOG OPENING. AN ADDITIONAL 3" IN WIDTH IS ADDED FOR THE LOG OPENING OF THE DOORS.
3. LCH IS NOT RESPONSIBLE FOR TEMPERED WINDOWS USED IN THE INCORRECT LOCATION. CONSULT WITH YOUR BUILDER IF LOCATION IS NOT LISTED ON THE PLANS FOR TEMPERED GLASS PLACEMENT PER CODE. ANY STORM OR SCREEN DOORS WILL BE SUPPLIED BY THE OWNER.
4. LCH IS NOT RESPONSIBLE FOR SHOWING OR PLANNING FOR BASEMENT DOORS OR WINDOWS. ALL DOORS & WINDOWS WHETHER PROVIDED BY LCH OR NOT SHALL MEET EGRESS CODE WHERE REQUIRED.
5. CHECK WITH LOCAL BUILDING DEPARTMENT AND THEN YOUR CUSTOMER SERVICE REP TO VERIFY THAT THE WINDOWS LCH IS PROVIDING MEETS YOUR LOCAL ENERGY CODE REQUIREMENTS (U-FACTOR & SGHC). ENERGY STAR RATING IS OPTIONAL. CONSULT WITH YOUR CUSTOMER SERVICE REP FOR ADDITIONAL OPTIONS, DETAILS, AND DELIVERY PROCEDURES.

LIMITED LIFETIME WARRANTY-

LOG CABIN HOMES warrants, to the original purchaser, all log wall materials manufactured by Log Cabin Homes to be free from defects in manufacturing and workmanship, for the lifetime of the original purchaser. This warranty does not include labor, installation and shipping costs related to repair or replacement, or damages from improper handling or installation, or failure to correctly seal-treat the log materials within thirty days of delivery. All other materials included in our log home packages such as windows, doors, roofing, etc. are solely warranted directly by their respective manufacturers. All customer requests for repair or replacement of materials covered under this warranty must be made in writing and sent directly to Log Cabin Homes. This warranty is in lieu of all other warranties expressed or implied. For warranty information on products not manufactured by Log Cabin Homes contact your customer service representative.

WARNING!! Your logs, siding, and wood, must be erected and installed correctly and coated, and final caulking and/or chinked in accordance with the coating and caulking manufacturer's instructions. In addition, the wood must be correctly prepped and cleaned prior to final chinking, caulking, and coating. Failure to correctly prep and clean, final chink and/or caulk, and coat exterior wood will void your Log Cabin Homes Warranty, and create problems that may only be corrected by a very expensive, laborious process.

The Original LOG CABIN HOMES

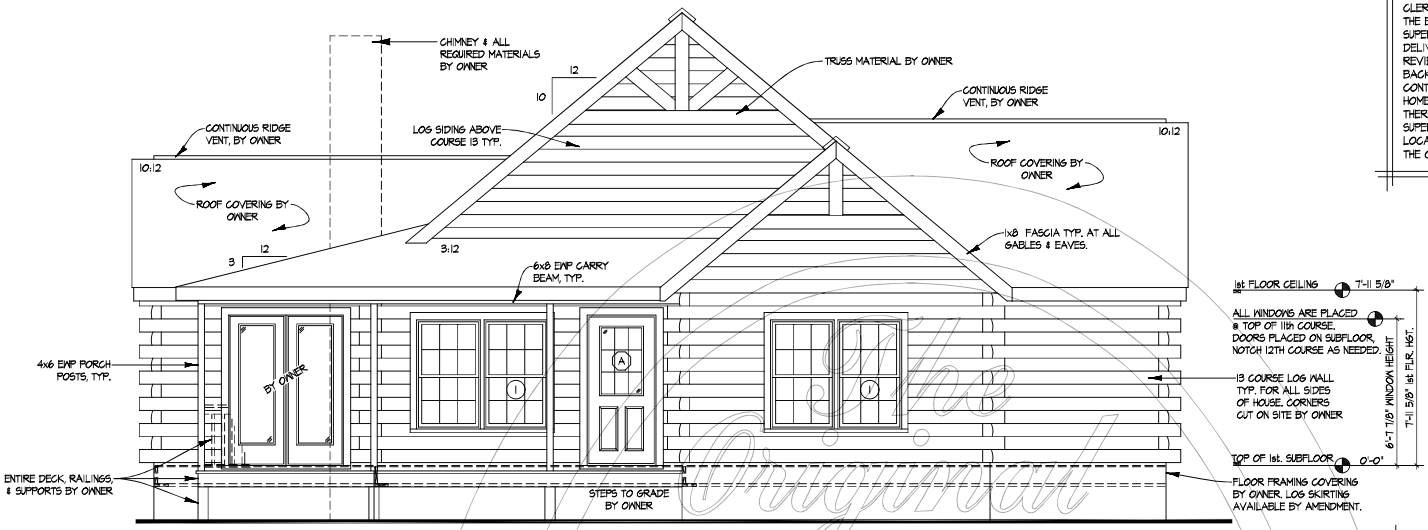
SEAL

1. DO NOT USE ANY KIND OF SCALE OR MEASURING DEVICE ON THESE DRAWINGS
2. FIELD CHECK AND VERIFY ANY AND ALL DIMENSIONS.
3. DRAWINGS WITH PRELIMINARY WATERMARK DISPLAYED ARE PRELIM. PRINTS AND NOT FOR CONSTRUCTION PURPOSES.

THE ORIGINAL LOG CABIN HOMES Ltd.
CUSTOM DESIGNED HOME FOR:
SUSAN WOODLEY
SANFORD, NC; HARNETT COUNTY

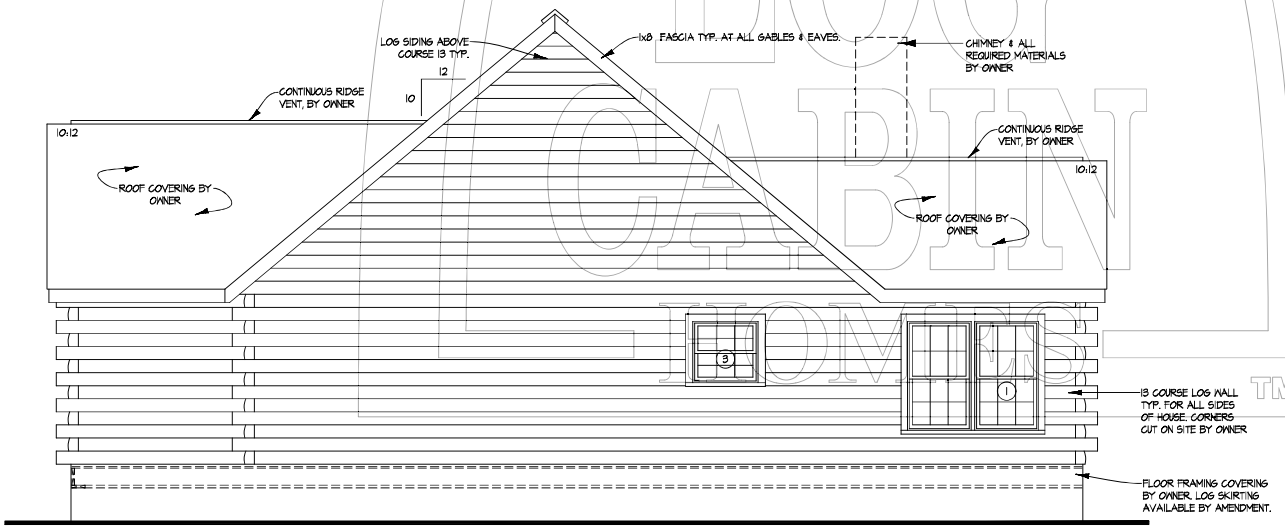
REVISIONS

DRAWN BY: LJM
CHKD BY:
DATE: 7/22/24
FILE NAME:
SHEET NO. CS



FRONT ELEVATION

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



REAR ELEVATION

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

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LCH WILL SEND LOGS IN LENGTHS RANGING BETWEEN 4'-0" TO 16'-0". PLEASE MAKE YOUR BUILDER AWARE OF THIS IN ORDER TO USE THE MATERIALS WISELY. SOME WINDOWS OR DOORS MAY HAVE TO SHIFT SLIGHTLY TO ACCOMADATE THE SHORTER LENGHTS AND PREVENT AN EXCESS OF WASTED LOGS. THIS CAN BE DECIDED ON SIGHT WITH YOUR BUILDER. LCH WILL NOT BE RESPONSIBLE FOR LOG SHORTAGE CREATED ON SITE.

NOTE:

OWNER TO VERIFY W/ LOCAL BUILDING DEPARTMENT WINDOW REQUIREMENTS PRIOR TO DELIVERY. WINDOWS CANNOT BE UPGRADED AFTER DELIVERY.

NOTE: GUTTERS & DOWNSPOUTS ARE REQUIRED FOR ALL LOG BUILDING ROOFS TO KEEP & DIRECT RAIN WATER AWAY FROM YOUR HOME. PROFESSIONAL INSTALLATION IS RECOMMENDED TO INSURE CORRECT PLACEMENT OF GUTTERS & DOWNSPOUTS & DIVERSION OF WATER AWAY FROM YOUR HOME AND FOUNDATION.

The Original LOG CABIN HOMES

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CUSTOM DESIGNED HOME FOR:
SUSAN WOODLEY
SANFORD, NC; HARNETT COUNTY

REVISIONS

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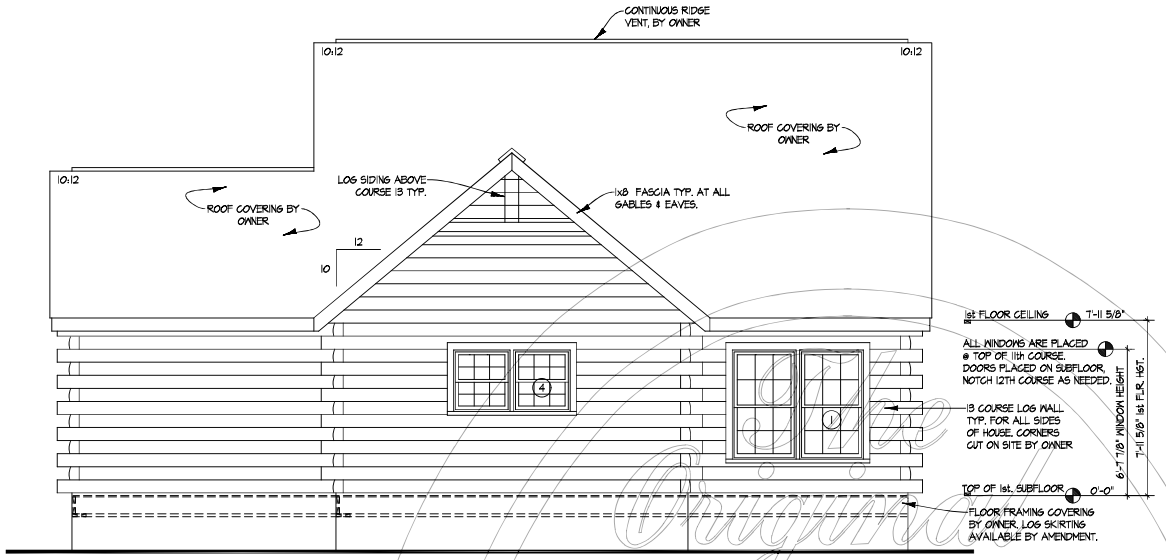
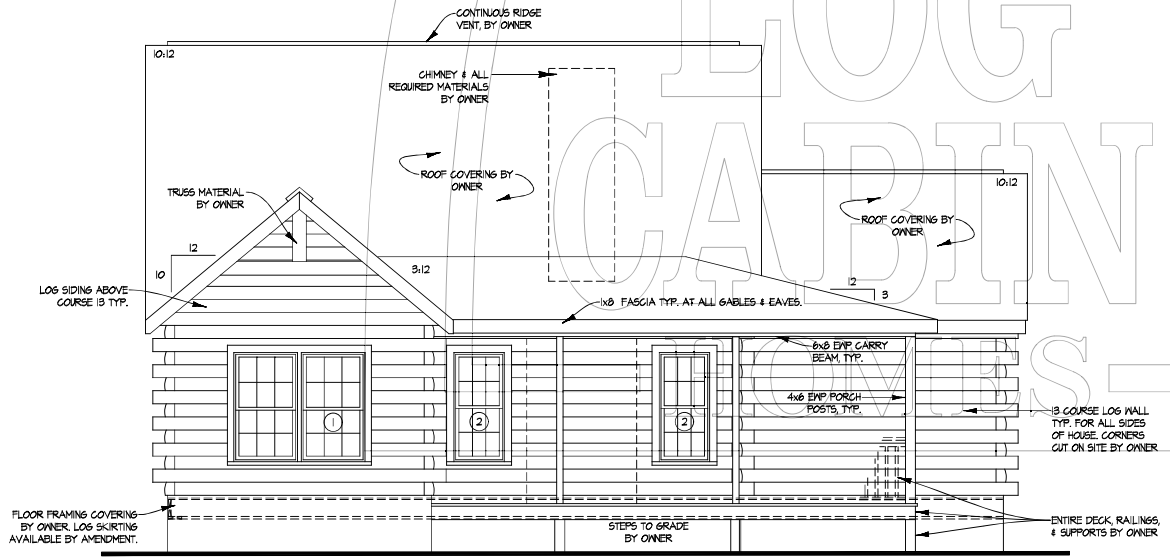


RIGHT ELEVATION

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



LEFT ELEVATION

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

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A1B

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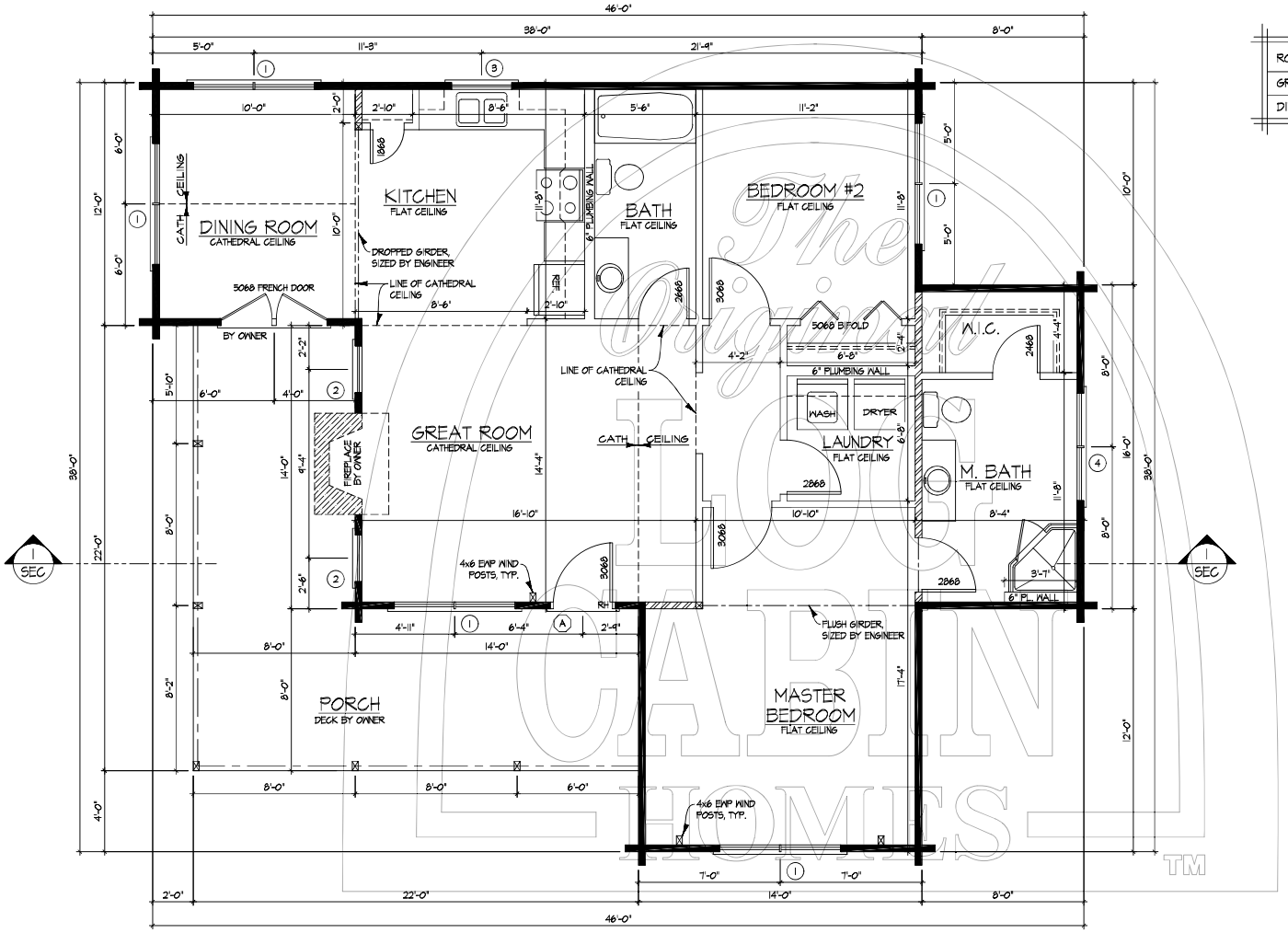
ROOM FINISH SCHEDULE
FOR MATERIAL PURCHASED WITH LCH

ROOM NAME	WALLS	FLOORS	CEILINGS	BEAMS
GREAT ROOM			1X8 T&G	
DINING ROOM			1X8 T&G	



NOTE:

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NOTES:

-ALL WALLS ARE DRAWN NOMINAL 4" WIDE UNLESS NOTED OTHERWISE.

-ANGLED WALLS ARE AT 45 DEGREES UNLESS NOTED OTHERWISE.

-ALL STAIRS & HANDRAIL BY OWNER.

-LOAD BEARING WALLS AND POINT LOADS ARE INDICATED BY HATCHINS.

-FIREPLACE AND ALL REQUIRED MATERIALS FOR CONSTRUCTION AND FRAMING TO BE PROVIDED BY THE OWNER. INSTALLATION TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES IS THE RESPONSIBILITY OF THE OWNER.

-PROVIDE ADEQUATE SOLID BEARING UNDER ALL GIRDER, HEADER, AND POINT LOAD BEARING POINTS DOWN TO FOUNDATION.

-ALL INTERIOR AND EXTERIOR LOG CORNERS ARE DESIGNED AND CUT TO FIT ON JOB SITE BY OWNER UNLESS OTHERWISE NOTED ON THE PLANS.

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

The Original LOG CABIN HOMES

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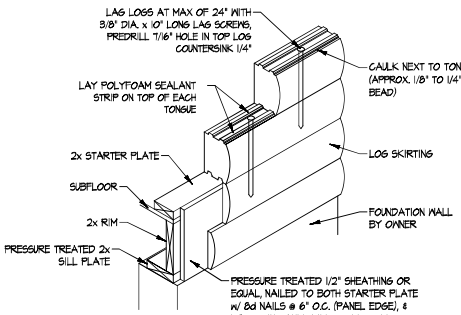
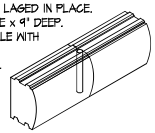


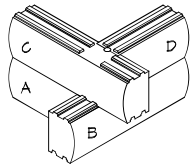
ASSEMBLE DETAIL

-CLEAN ENDS OF LOG TO ASSURE TIGHT FIT.
-BUTT LOGS TOGETHER AND TOENAIL WITH 16d NAILS TO HOLD LOGS IN LINE UNTIL THEY ARE LAGED IN PLACE.
-DRILL 1 1/8" HOLE x 9" DEEP.
-PARTLY FILL HOLE WITH CAULK.
-DRIVE 9" DOWEL FLUSH WITH TOP OF LOG



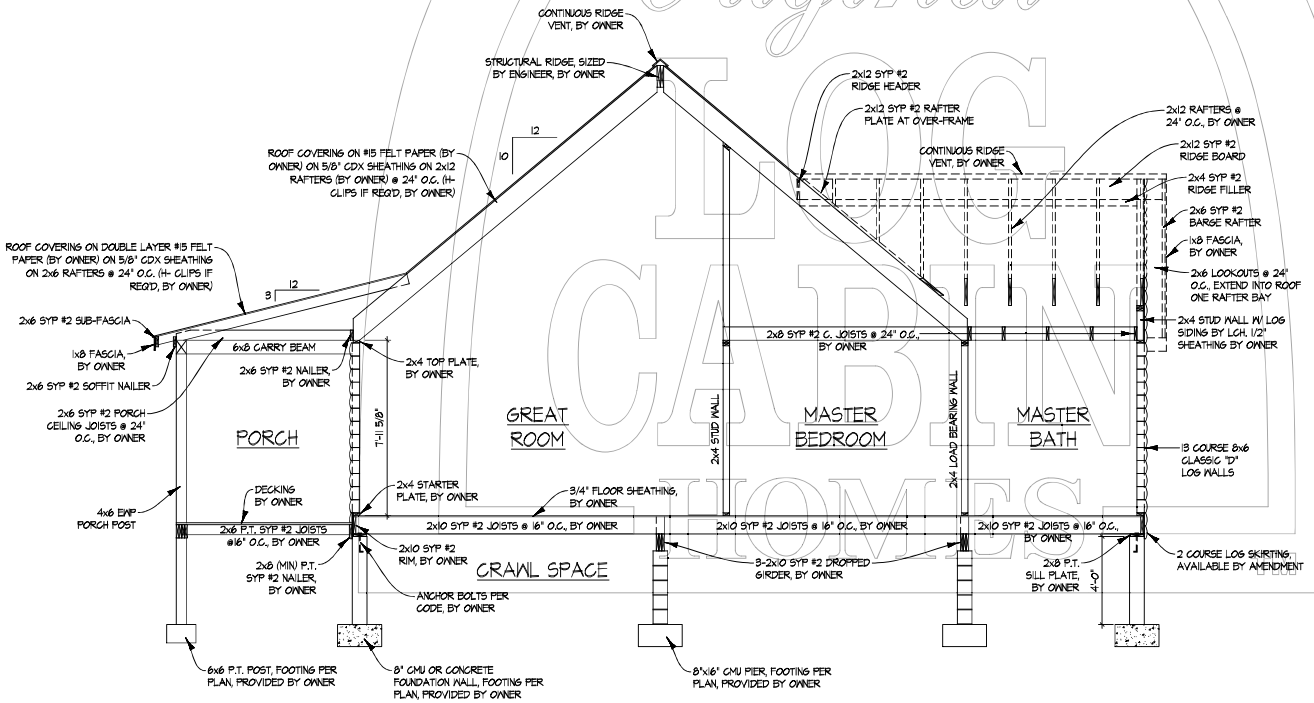
IN LINE JOINT DETAIL

-PREPARE BUTT CUT ON LOG "A" & "D" AS SHOWN AT LEFT OF PAGE
-PREPARE PASS CUT ON LOGS "B" & "C" AS SHOWN AT LEFT OF PAGE



-BUTT LOG "A" INTO LOG "B" BE SURE TONGUE ON LOG "B" HAS BEEN REMOVED TO ALLOW LOG "C" TO PASS OVER LOG "B"
-TOENAIL LOG "A" TO LOG "B"
-LAG BOTH LOGS IN PLACE
-DRILL 1 1/8" HOLE x 9" DEEP AT THE CENTER OF THE INTERSECTION
-PARTIALLY FILL HOLE WITH CAULK AND DRIVE IN 9" DOWEL FLUSH
-REPEAT THE PROCESS ON EACH SUCCESSIVE COURSE OF LOG

NOTCH & PASS DETAIL



BUILDING SECTION

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

- REFER TO LCH STANDARD DETAILS FOR MORE DETAILS.
- MATERIAL SIZES MAY VARY, REFER TO FLOOR PLANS, FLOOR & ROOF FRAMING AND FOUNDATION PLANS OR CONTRACT FOR MATERIAL SIZES.
- CORNER STYLES AND LOG STYLES MAY VARY. SEE PLAN.

FOUNDATION WARNING

-THE ENTIRE FOUNDATION/BASEMENT PLAN IS THE OWNER/CONTRACTOR'S RESPONSIBILITY.
-LCH PROVIDES A "STANDARD" FOUNDATION / BASEMENT PLAN.
-REMOVING, RESIZING OR RELOCATING OBJECTS FROM LCH FOUNDATION PLAN IS PERMITTED BUT MUST BE DETERMINED PRIOR TO DELIVERY.
-ANY DEVIATION FROM THE "STANDARD" FOUNDATION PLAN MUST BE DETERMINED PRIOR TO CONSTRUCTION AND APPROVED BY A LOCAL THIRD PARTY.
-LCH ADVISES THAT ALL FOUNDATION / BASEMENT PLANS BE REVIEWED AND APPROVED BY A LOCAL THIRD PARTY.
-LCH DOES NOT ASSUME ANY RESPONSIBILITY FOR THE FOUNDATION / BASEMENT PLAN CHANGES MADE BY OTHERS THAT WOULD CHANGE THE AMOUNT OR SIZE OF MATERIALS THAT IS INCLUDED IN THIS PACKAGE PER LCH PLANS AND CONTRACT.

PLANS SUBJECT TO CHANGE UPON FINAL AUDIT OF PLANS DURING THE MATERIAL TAKE-OFF PROCESS. LCH DOES NOT RECOMMEND BUILDING UNTIL OUR TAKE-OFF IS COMPLETE UNLESS A THIRD PARTY CONSULTANT HAS REVIEWED THE PLANS AND MATERIALS LIST.

NOTE:

OWNER TO VERIFY W/ LOCAL BUILDING DEPARTMENT WINDOW REQUIREMENTS PRIOR TO DELIVERY. WINDOWS CANNOT BE UPGRADED AFTER DELIVERY.

*SEE CONTRACT AND MATERIALS LIST TO CONFIRM ITEMS THAT ARE PROVIDED BY LCH

The Original LOG CABIN HOMES

SEAL

1. DO NOT USE ANY KIND OF SCALE OR MEASURING DEVICE ON THESE DRAWINGS
2. FIELD CHECK AND VERIFY ANY AND ALL DIMENSIONS.
3. DRAWINGS WITH PRELIMINARY WATERMARK DISPLAYED ARE PRELIM. PRINTS AND NOT FOR CONSTRUCTION PURPOSES.

THE ORIGINAL LOG CABIN HOMES Ltd.
CUSTOM DESIGNED HOME FOR:
SUSAN WOODLEY
SANFORD, NC; HARNETT COUNTY

REVISIONS

DRAWN BY:	LJM
CHKD BY:	
DATE:	7/22/24
FILE NAME:	
SHEET NO.	SEC

The Susan Woodley Residence - Structural Plans

635 Barbecue Church Road
Sanford, NC 27332 - Harnett Co.

The Original Log Cabin Homes
P.O. Drawer 1457
Rocky Mount, NC 27802
252-451-1500

Square Footages

Heated Square Footage	
First Floor	1,144.00
Total Heated Square Footage	1,144.00
Unheated Square Footage	
Front Porch	288.00
Total Unheated Square Footage	288.00

Design Specifications

Applicable Building Codes	
2018 North Carolina Residential Code	
ASCE 7-16	
2018 National Design Specification (NDS) for Wood	
Design Loads (in PSF)	
Floor Live Load	40
Floor Dead Load (2x_ Lumber)	10
Floor Dead Load (Timber)	15
Floor Dead Load (Floor Truss)	15
Floor Dead Load (I-Joist)	12
Roof Live Load	20
Roof Dead Load (2x_ Lumber)	10
Roof Dead Load (Timber)	15
Roof Dead Load (Truss)	20
Snow Load	10
Deck Live Load	40
Balcony Live Load	60
Garage Floor Live Load	50
Garage Floor Dead Load	50
Floor Tile Dead Load	5
Assumed Soil Bearing Capacity	2000
Building Elevation (Ft)	265
Seismic Design Category	B
Spectral Response Acceleration SDS	0.153
Flood Zone	X
Base Flood Elevation (BFE) (Ft)	0
Wind Zone (MPH)	120
Exposure	B
Max Mean Roof Height (ft)	15

Component & Cladding Values (in PSF)		
	Pos.	Neg.
Zone 1	14.2	-15
Zone 2	14.2	-18
Zone 3	14.2	-18
Zone 4	15.5	-16
Zone 5	15.5	-20

Sheet Index

Ventilation

Roof Ventilation	
Attic Area	919.00
Vented Cathedral Ceiling Areas	225.00
Porch Ceiling Areas	288.00
Required Roof Ventilation (SF)	9.54
Crawl Space Ventilation	
Vented Crawl Space Area (SF)	1,144.00
Sealed Crawl Space Area (SF)	0.00
Required Crawl Ventilation (SF)	7.62
Ventilation Notes	
1. Attic ventilation shall comply with section R806 of the state building code.	
2. Attic ventilation area may be reduced by 50% if one of the exceptions listed in section R806.2 of the state building code is met.	
3. Foundation ventilation shall comply with section R408.1 and R408.2 of the state building code.	
4. 100% of the crawl space is to be covered with an approved class 1 6 mil ploy vapor barrier, U.N.O.	
5. Foundation vents are not required if crawl space is to be sealed. Refer to Section R408.3 of the state building code.	

Abbreviations

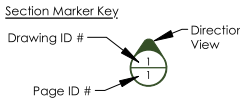
ABV	Above
ASCE	American Society of Civil Engineers
AFF	Above Finished Floor
AISC	American Institute for Steel Construction
APA	American Plywood Association
AWS	American Welding Society
CJ	Ceiling Joist
C.O.	Cased Opening
DBL	Double
DIA	Diameter
DF	Douglas Fir
DJ	Double Joist
DSP	Double Stud Pocket
DN	Down
EA	Each
EE	Each End
EOS	Edge of Slab
EW	Each Way
EWP	Eastern White Pine
GALV	Galvanized
GYP	Gypsum
HDG	Hot Dipped Galvainzed
HR	Hour
JS	Jack Stud
KS	King Stud
LF	Linear Foot
LVL	Laminated Veneer Lumber
NDS	National Design Specification for Wood
NTS	Not to Scale
OC	On Center
OSB	Oriented Strand Board
PCI	Pounds per Cubic Inch
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PSL	Parallel Strand Lumber
PT	Pressure Treated
RO	Rough Opening
SC	Stud Column
SER	Structural Engineer of Record
SHGC	Solar Heat Gain Coefficent
SL	Side Light
SF	Square Foot
SPF	Spruce Pine Fir
SYP	Southern Yellow Pine
SST	Simpson Strong Tie
STD	Standard
TJ	Triple Joist
TOF	Top of Floor
TOS	Top of Slab
TYP	Typical
Van.	Vanity
UNO	Unless Noted Otherwise
WH	Water Heater
WWF	Welded Wire Fabric
XJ	Single Joist
W/	With

Typ. Connector Schedule

SST	USP/Mitek	Use Description
LUS24	JUS24	Face Mount Hanger for 2x4 Joists/Beams
LUS26	JUS26	Face Mount Hanger for 2x6 Joists/Beams
LUS28	JUS28	Face Mount Hanger for 2x8 Joists/Beams
LUS210	JUS210	Face Mount Hanger for 2x10 Joists/Beams
LUS212	JUS212	Face Mount Hanger for 2x12 Joists/Beams
LUS24-2	JUS24-2	Face Mount Hanger for (2)2x4Joists/Beams
LUS26-2	JUS26-2	Face Mount Hanger for (2)2x6 Joists/Beams
LUS28-2	JUS26-2	Face Mount Hanger for (2)2x8 Joists/Beams
LUS210-2	JUS210-2	Face Mount Hanger for (2)2x10 Joists/Beams
LUS212-2	JUS212-2	Face Mount Hanger for (2)2x12 Joists/Beams
LUS26-3	JUS26-3	Face Mount Hanger for (3)2x6 Joists/Beams
LUS28-3	JUS28-3	Face Mount Hanger for (3)2x8 Joists/Beams
LUS210-3	JUS210-3	Face Mount Hanger for (3)2x10 Joists/Beams
LUS212-3	JUS212-3	Face Mount Hanger for (3)2x12 Joists/Beams
CJT3	-	Concealed Joist Tie for 4x6/4x8 Beams
CJT4	-	Concealed Joist Tie for 4x10 Beams
CJT5	-	Concealed Joist Tie for 4x12 Beams
ABA/ABU44	PAU44	Post Base for 4x4 Posts
ABA/ABU46	PAU46	Post Base for 4x6 Posts
ABA/ABU66	PAU66	Post Base for 6x6 Posts
ABU88	-	Post Base for 8x8 Posts
ABU1010	-	Post Base for 10x10 Posts
BC4	C44	Post Cap for 4x4 Posts
BC46	C46	Post Cap for 4x6 Posts
BC6	C66	Post Cap for 6x6 Posts
BC8	-	Post Cap for 8x8 Posts
LCE4	PBES44	Corner Post Cap for 4x4/6x6 Posts
H2.5A	RT7A	Rafter/Joist Hurricane Tie
CS16	RS150	Coiled Strap
HTT4	HTT45	Tension Tie/Holdown
PA51	TA51	Strap Tie Holdown

Notes:

1. Plan specified connectors supersede this chart
2. All connectors use in exterior applications to be hot dipped galvanized
3. For USP/Mitek substitutions not shown, contact Arrow Design, PLLC to determine if an equivalent product is available.



Bradford A. Aycock, P.E.

Digitally signed by Bradford A. Aycock, P.E.
Date: 2024.07.22 08:25:17 -04'00'

*****These plans may only be released to 3rd parties by The Original Log Cabin Homes (client) or by the engineer with written permission from the client. All questions on structural plans from homeowner/contractor/ 3rd parties should be directed through The Original Log Cabin Homes (client).*****

ARROWdesign pllc
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NC Firm License #: P-1562

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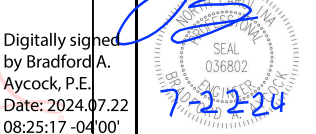
Seal



Structural Members Only

Project No.: 24111

Drawn By: B.A.A.

Publish Date: Jul 22, 2024

Sheet No.: 1 of 13

Revisions		
Number	**Date**	**Description**

Plan Symbol Key	
Description	**Symbol**
Load Bearing Wall	
Dropped Beam/ Header/Structural Ridge	
Flush Beam/Joist/ Rafter	
CMU	
Concrete	
Brick/Masonry	
Outline of Item Above or Below	
Undisturbed Earth/ Compacted Fill	
Crushed Stone	
Center Line	
Insulation	
Joist Supported Load Bearing Wall Abv. Provide Solid Blocking Below	
Rigid Insulation	

General Notes

1. No other party may revise, alter, or delete any aspects of these construction documents without written permission of Arrow Design, PLLC.
2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
3. Arrow Design, PLLC is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. Arrow Design, PLLC will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
4. Any structural elements or details not fully developed on the construction drawings or in the local building code shall be completed under the direction of a licensed professional engineer. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of Arrow Design, PLLC.
5. Verification of assumed field conditions is not the responsibility of Arrow Design, PLLC. The contractor shall verify the field conditions for accuracy and report any discrepancies to Arrow Design, PLLC before construction begins.
6. Arrow Design, PLLC is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
7. This structure, structural assemblies and all construction shall conform to all applicable sections of the international residential code and any local building codes (with local codes taking precedent)
8. **CONTRACTOR SHALL REVIEW ALL NOTES, SPECIFICATION, AND DETAILS before beginning construction.** Any questions or concerns shall be brought to the attention of Arrow Design, PLLC immediately and before commencing with any construction activities. Arrow Design, PLLC is not responsible for contractor failure to read construction documents.

Log Framing Material Package

1. Framing Materials for this home will be provided as a package from Original Log Cabin Homes (OLCH).
2. Foundation materials, deck framing materials, railings, interior finishes and appliances are typically not included in this package and are the responsibility of the owner/contractor.
3. Refer to the OLCH materials contract for a complete listing of all items provided. Contract supersedes plan notes. Any item not explicitly stated in the materials contract is to be provided by the owner/contractor.
4. Arrow Design, PLLC is not responsible for OLCH errors and omissions in material contract documents.
5. Arrow Design, PLLC is not responsible for material supplier/client/contractor coordination.

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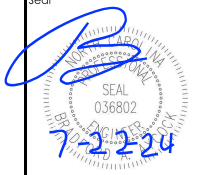

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Sheet No.
2 of 13

Foundations

1. Verification of the assumed soil bearing capacity value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered a licensed professional engineer must be contacted before proceeding.
2. The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
3. Any fill shall be placed under the direction or recommendation of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95% maximum dry density.
4. Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
5. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
6. Unbalanced backfill shall not exceed 48" on unreinforced masonry walls. Refer to details for masonry walls with more than 48" of unbalanced backfill.

Concrete

1. Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
2. Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
3. Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows:
   - Footings: 5%
   - Exterior Slabs: 5%
4. No admixtures shall be added to any structural concrete without written permission of the SER
5. Concrete slabs-on-grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction".
6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.
7. Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished.
9. Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour.

Reinforced Concrete

1. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
3. Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard)
4. Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard.
5. Steel Reinforcing bas shall be new billet steel conforming to ASTM A615, grade 60.
6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
7. Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
8. Lap reinforcement as required as minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
9. Where reinforcing dowels are required , they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

Superior Walls

1. Superior walls should be installed by a Superior Walls certified installer.
2. Manufacturer wall layout shop drawing shall be submitted to the designer for verification of dimensions, openings, and point loads before construction begins. Designer is not responsible for dimensional inaccuracies on the part of the manufacturer.
3. Superior walls shall be installed in accordance with the latest edition of the Builder Guideline Booklet.
4. Do not place backfill on wall until floor system is in place and the walls are fully braced against lateral forces.
5. It is the responsibility of the contractor to verify that existing soil conditions are suitable for the placement of the Superior Wall panels prior to construction.

Structural Steel

1. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and of the manual of Steel Construction "Load Resistance Factor Design" latest editions.
2. Structural steel shall receive one coat of shop applied rust-inhibitive paint.
3. All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted.
4. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D1.1. Electrodes for shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.

Wood Framing

1. Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Spruce-Pine-Fir (SPF) #2.
2. LVL or PSL engineered wood shall have the following minimum design values:
   - E = 2,000,000 psi
   - Fb = 2600 psi
   - Fv = 285 psi
   - Fc = 700 psi
3. Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
4. Nails shall be common wire nails unless otherwise noted.
5. Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
6. All beams shall have full bearing on supporting framing members unless otherwise noted.
7. Exterior and load bearing stud walls are to be 2x4 SPF#2 @16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall be continuous.
8. Individual studs forming a column shall be attached with one 10d nail @6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer.
9. Multi-ply beams shall have each ply attached with (3)12d nails @12" O.C.
10. Four and five ply beams shall be bolted together with (2) rows 1/2" dia. through bolts staggered @16" O.C. unless noted otherwise.

Wood Trusses

1. The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
2. The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-02), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached to the trusses.
3. The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
4. The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.
5. Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacturer.

Structural Fiberboard Panels

1. Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
2. All structurally required fiberboard sheathing shall bear the mark of the AFA.
3. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.
4. Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

Wood Structural Panels

1. Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.
2. All structurally required wood sheathing shall bear the mark of the APA.
3. Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
4. Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
5. Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ring shank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
6. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

Logs

1. All logs should be graded according to the provisions set forth in ASTM D3957 and in accordance with all local building codes. It is the responsibility of the contractor and log supplier to ensure to all logs have been properly graded and that the proper documentation can be provided. Arrow Design, PLLC does not take responsibility for the failure of the contractor or log supplier to verify that log grading is in compliance with the local building codes.
2. All logs are to be kiln dried Eastern White Pine #2, unless otherwise noted.
3. Provide two courses (min) above all openings, unless otherwise noted.
4. Do not break logs over openings or within 4" of an opening edge.

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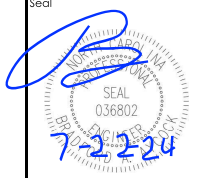

Structural Members Only

Project No.
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Drawn By
B.A.A.

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Sheet No.
3 of 13

Footing Schedule

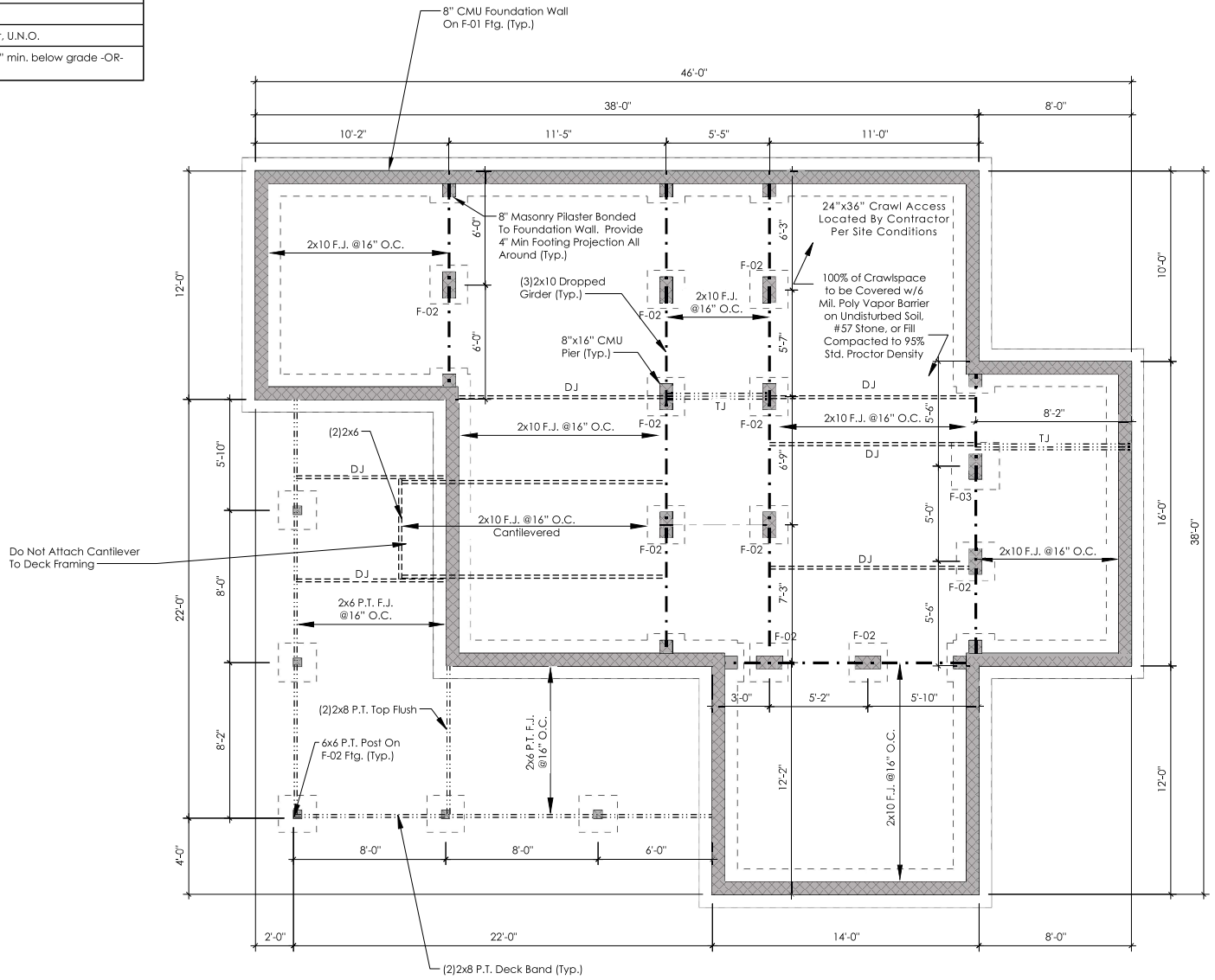
Mark	Size	Rebar
F-01	24"x12" Cont. Conc.	(2)#4 Cont.
F-02	24"x24"x10"	None
F-03	30"x30"x10"	(3)#4 or (3)#5 E.W.
F-04	36"x36"x10"	(4)#4 or (3)#5 E.W.

Notes:

1) Lap all rebar splices 30" min., U.N.O.

2) Provide 3" min. concrete cover for all rebar, U.N.O.

3) The bottom of all footings to be located 12" min. below grade -OR- below local frost depth, whichever is greater.



1/4 FOUNDATION PLAN

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

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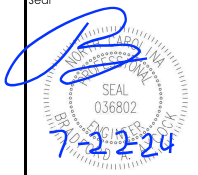
Seal



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Header Schedule

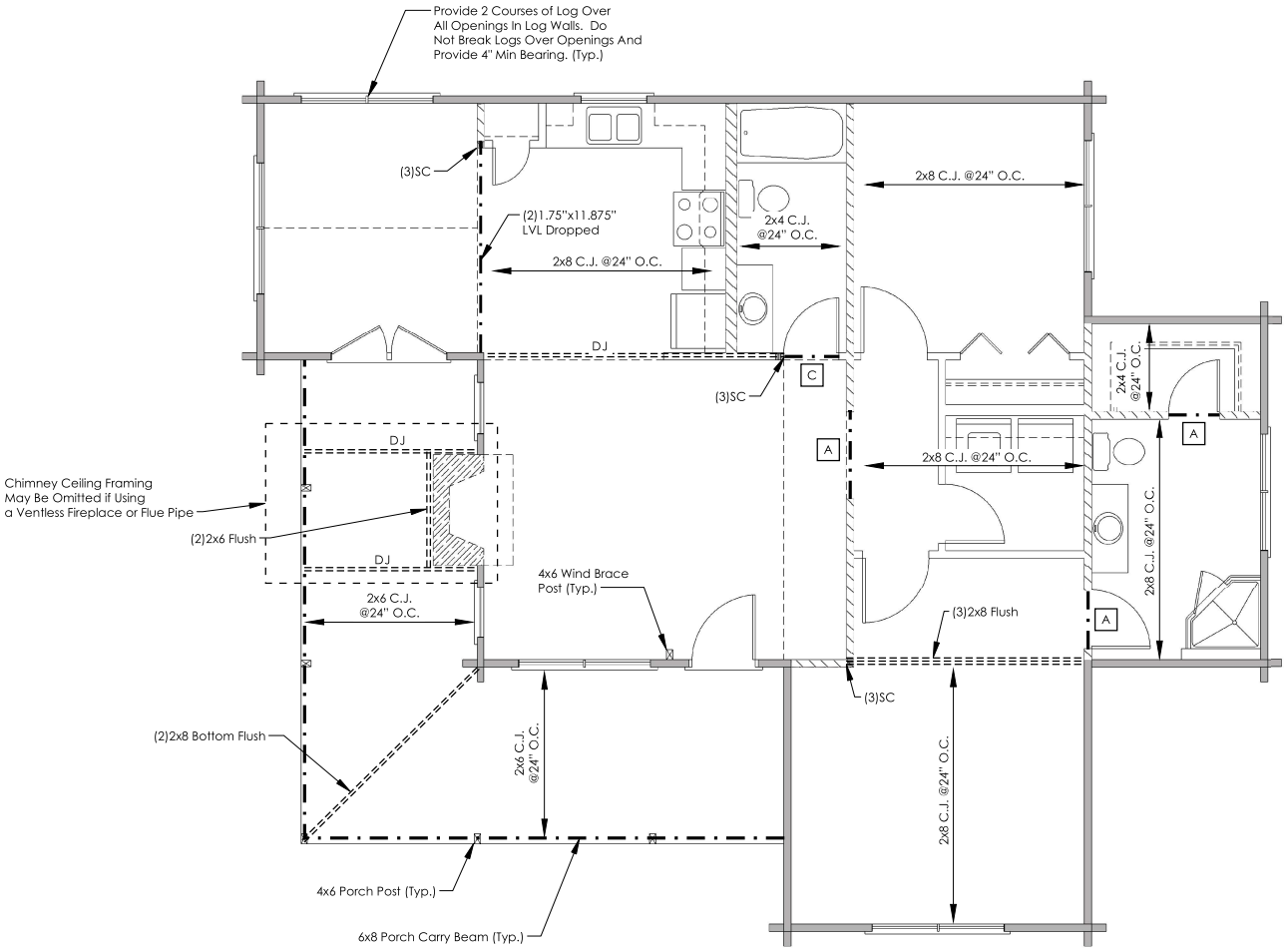
Mark	Size	Jacks E.E.
A	(2)2x6	1
B	(2)2x8	1
C	(2)x10	2
D	(2)2x12	2
E	(2)1.75"x9.25" LVL	2
F	(2)1.75"x11.875" LVL	3

Notes:

1. Plan noted jack studs take precedence over schedule.
2. Refer to Typical Opening Detail for king stud requirements or section R607.2 of state building code.

General Framing Notes

1. All exterior framed walls to be 2x4 studs at 16" O.C. and are assumed to be load bearing
2. All interior framed walls are to be 2x4 studs @16" O.C. for load bearing walls and 24" O.C. for non-load bearing walls.
3. All exterior framed walls are considered to be load bearing AND braced wall lines.
4. No load bearing studs shall be notched more than 1/3 of its total depth.
5. Attach 7/16" (min) OSB continuous sheathing to all exterior framed walls with 8d nails @6" O.C. edge and 12" O.C. field.
6. Refer to typical connector schedule for wood connectors not explicitly called out on the plan.
7. Provide solid blocking in the floor system between posts to ensure load transfer to the foundation
8. Any wood member in contact with masonry or exposed to weather shall be pressure treated.
9. Refer to the wood framing section of the cover sheet for multi-ply beam attachments.



1/5 FIRST FLOOR PLAN

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

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E-Mail: info@arrowdesignplic.com
NC Firm License #: P-1562

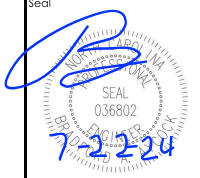
Project Name
The Susan Woodley Residence - Structural Plans

Project Address
635 Barbecue Church Road
Sanford, NC 27332 - Harnett Co.

Client Name
The Original Log Cabin Homes

Client Address
P.O. Drawer 1457
Rocky Mount, NC 27802
252-451-1500

Seal



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Wall Bracing Schedule

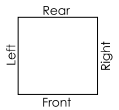
Wall Bracing Types	
Mark	**Description**
LOG	Fasten each log course with 10" log fasteners (3/16" ⌀ min.) @24" O.C. staggered.

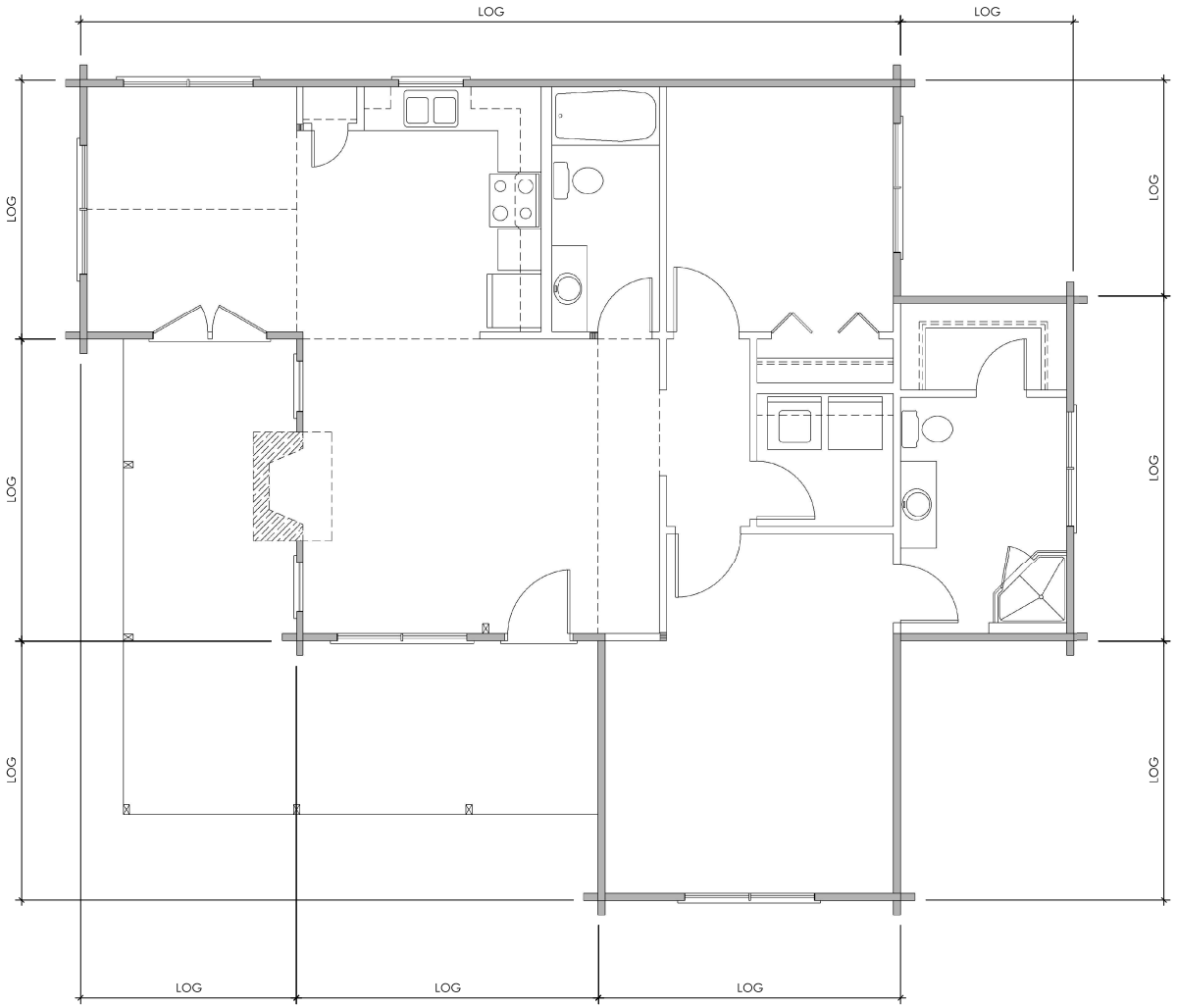
Wall Bracing Lengths		
Wall ID	**Required (ft)**	**Provided (ft)**
BW-1	N/A	N/A
BW-2	N/A	N/A
BW-3	N/A	N/A
BW-4	N/A	N/A

Connectors	
Mark	**Description**
▲	36" SST CS16 strap from bottom of stud to bottom of floor system band
△	48" SST CS16 strap from wall to plate, across header to jack stud below.

Wall Bracing Notes

1. Minimum panel width is 24" and 16" for portal frames.
2. Required length values based on the circumscribed rectangle method of the latest edition of the NCRC, section R602.10.3. If no rectangle is shown, it is assumed the entire structure has been calculated using one rectangle.
3. Panels may shift up to 36" in either direction for was of construction, however, nailing and blocking requirements still apply.
4. When a side does not meet the prescriptive requirements of the NCRC, a wall may be shown as "Eng-#". Requirements for the engineered sheer wall will be explicitly called out in an engineered wall schedule and required length/actual lengths in wall bracing chart will be listed as "N/A".
5. Schematic below indicates how sides of rectangle are to be interpreted in wall bracing chart when applied to the structure.





1/6 FIRST FLOOR PLAN
WALL BRACING
SCALE: 1/4" = 1'-0"

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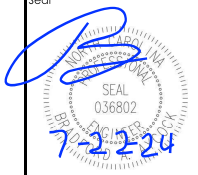

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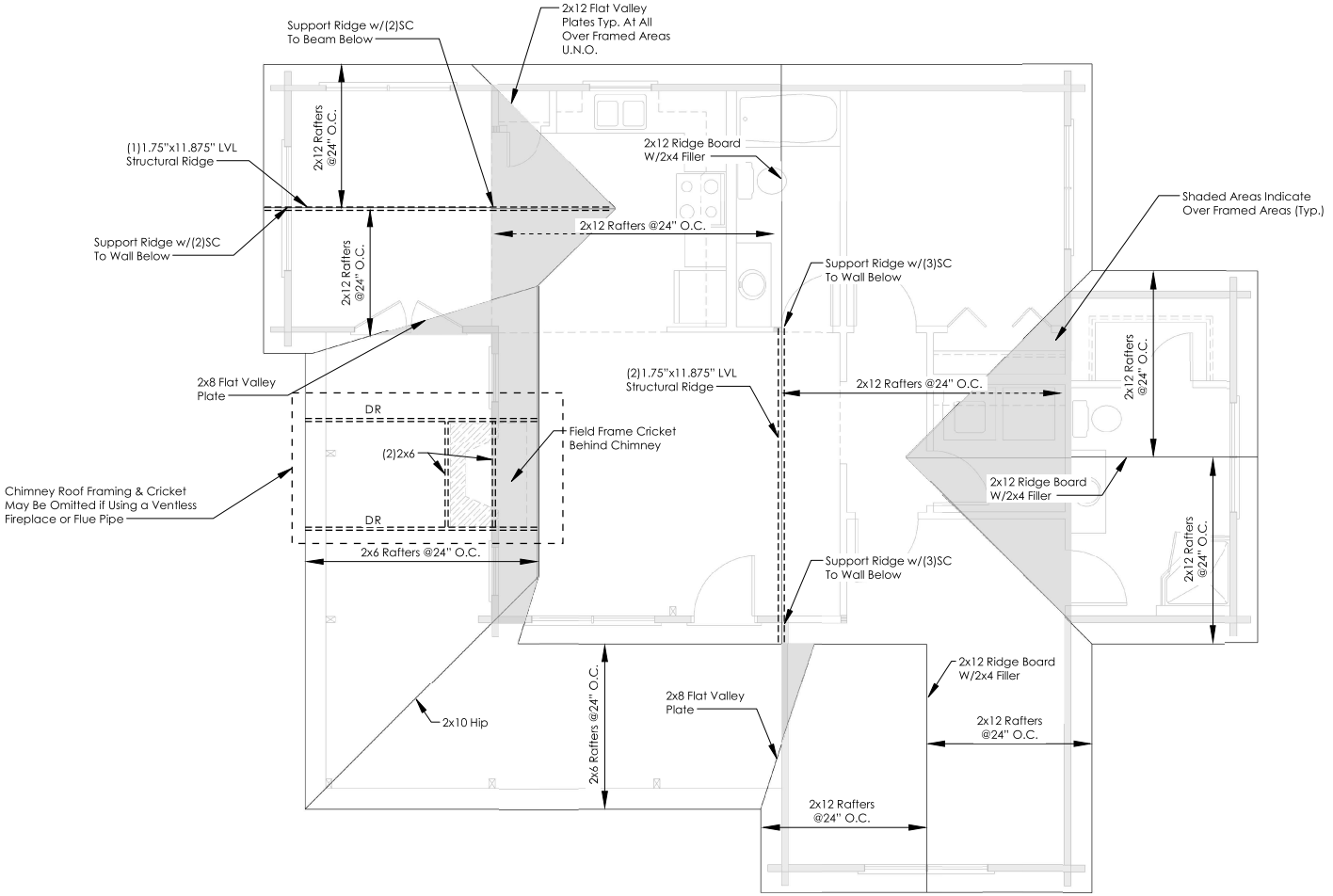
General Roof Plan Notes

1. All roof framing to be SPF#2 or greater.
2. 2x6 Collar ties to be installed on every other rafter in upper third of all roof areas NOT containing a structural ridge.
3. SST H2.5A rafter tie to be installed at the base of each rafter. For 4x8 rafters or larger, refer to wall section detail pages for connection requirements.
4. Roof sheathing to be 1/2" (min) OSB or plywood rated for 24" O.C. spacing. Use 5/8" sheathing when using a metal roof.

1. Truss manufacturer layouts and truss profile drawings take precedent over this plan and should be used in the construction of the roof.
2. All trusses and girder trusses are considered end-end bearing with no intermediate support unless explicitly specified.
3. Do not break rafters on knee walls, unless wall is noted as load bearing.



1/7 ROOF FRAMING PLAN

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

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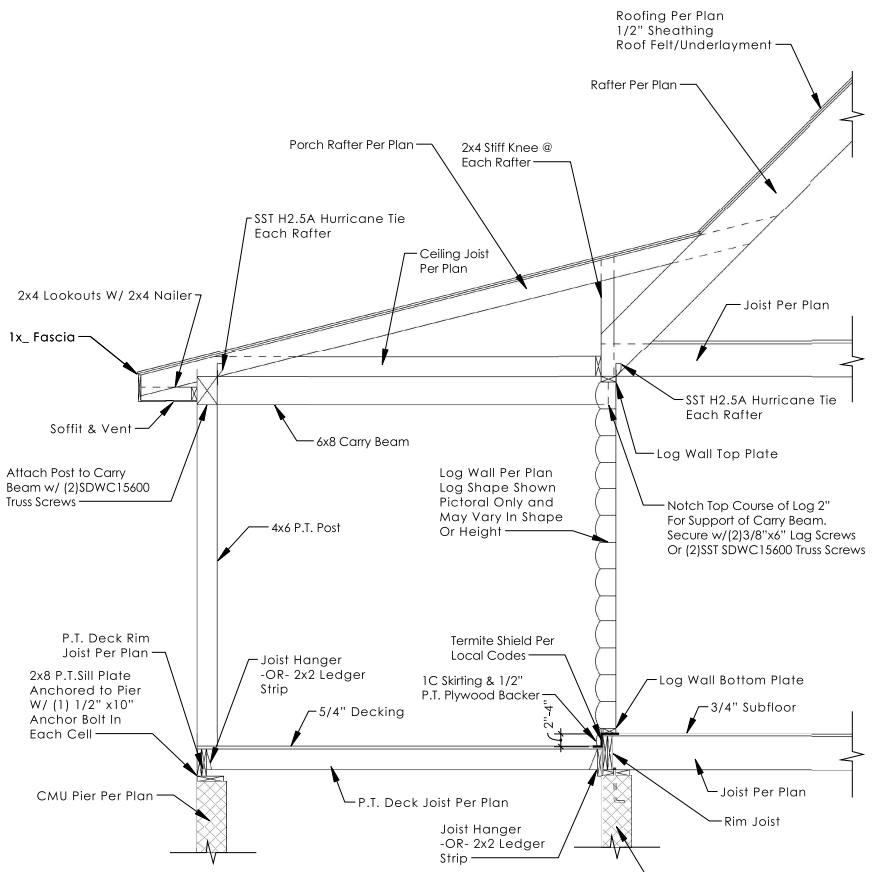
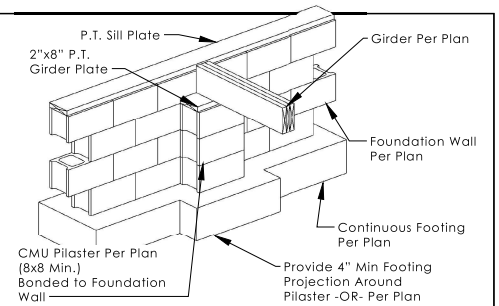


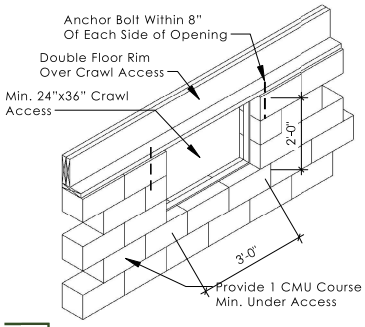
1/8 TYP. LOG WALL & PORCH SECTION

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



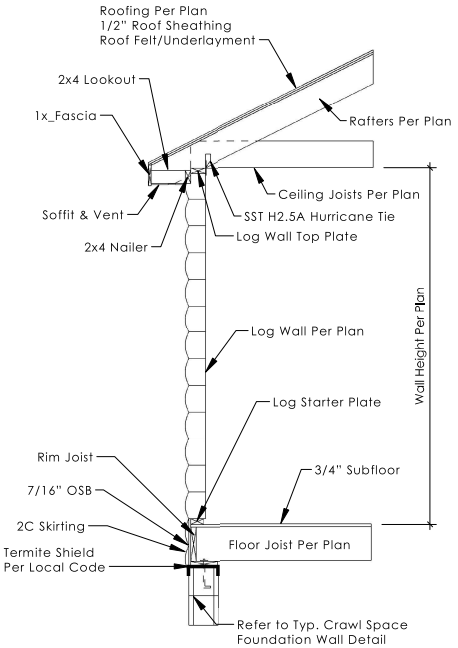
2/8 TYP. MASONRY PILASTER

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



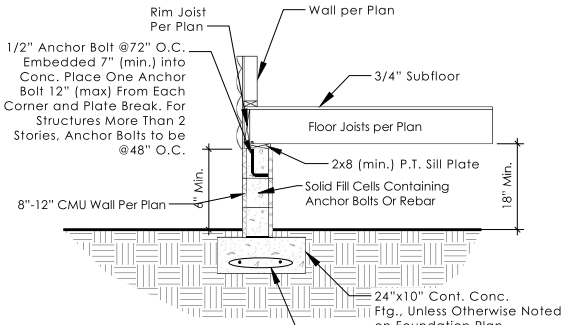
3/8 TYP. CRAWL SPACE ACCESS

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



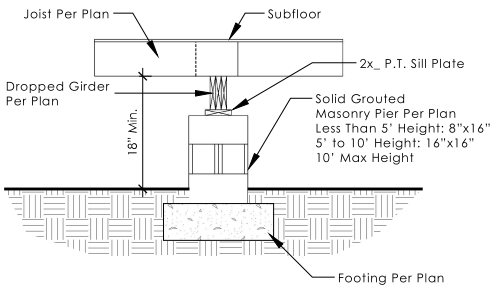
6/8 TYP. LOG WALL SECTION

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



4/8 TYP. CRAWL SPACE FOUNDATION WALL

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



5/8 TYP. MASONRY PIER

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

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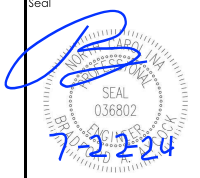

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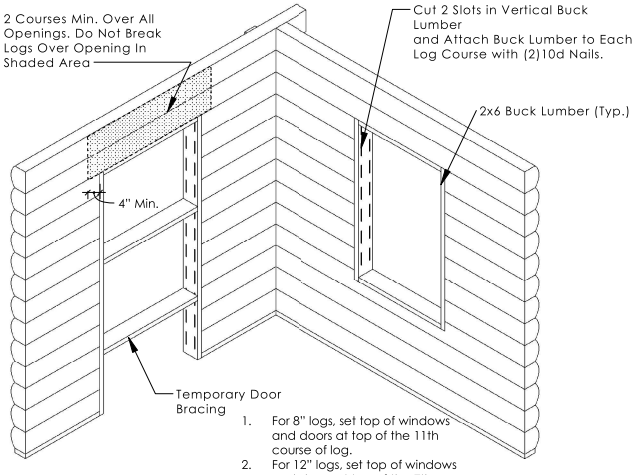
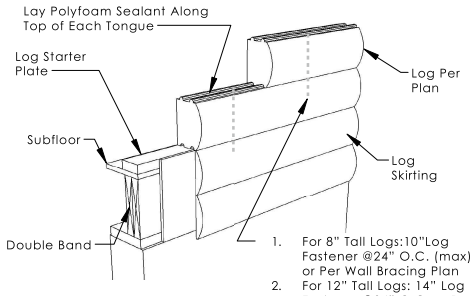


1. For 8" logs, set top of windows and doors at top of the 11th course of log.
2. For 12" logs, set top of windows and doors at top of the 7th course of log.
3. Refer to heights given on elevation plans.

1/9 LOG DOOR & WINDOW OPENINGS

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

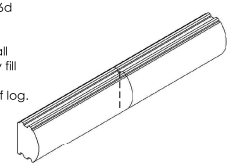


1. For 8" Tall Logs:10"Log Fastener @24" O.C. (max) or Per Wall Bracing Plan
2. For 12" Tall Logs: 14" Log Fastener @24" O.C. or Per Wall Bracing Plan
3. Pre-drill 5/16" Hole in Top of Log and Countersink 1/4".

2/9 TYP. LOG WALL ASSEMBLY AT FLOOR SYSTEM BAND

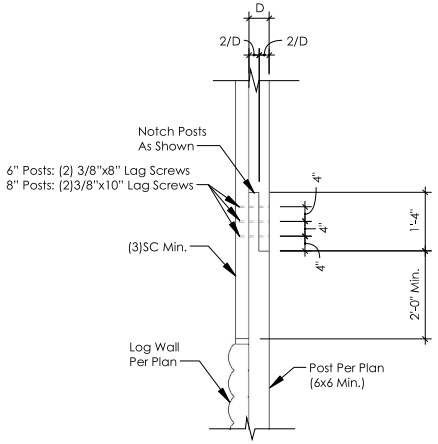
SCALE: Perspective

1. Clean ends of log to assure a tight fit.
2. Butt logs together and toenail with 16d nails to hold logs in line until they are spiked in place.
3. Drill 1 1/8" dia. hole, 9" deep for 8" tall logs and 13" for 12" tall logs. Partially fill with caulk.
4. Drive 9" or 13" dowel flush with top of log.



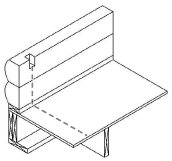
3/9 TYP. IN-LINE LOG JOINT

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



6/9 WIND BRACE POST SPLICE

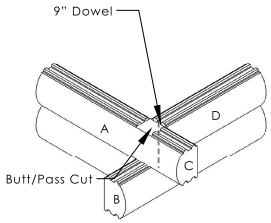
SCALE: 1/2" = 1'-0"



1. Electrical Outlets are cut into the top of the second course of log (except over cabinets when it is cut into the top of the sixth course).
2. After laying the second course of log, locate the position of all electrical outlets and drill 3/4" hole through bolt logs and subfloor as shown.
3. Using a duplex box as a template, trace outline of the box onto the log.
4. Using a 7 1/4" circular saw, kerf cut (As much as possible) the log away between the lines.
5. Using a wood chisel and mallet, remove the remaining wood from the cavity.

4/9 ELECTRICAL OUTLET IN LOG WALL

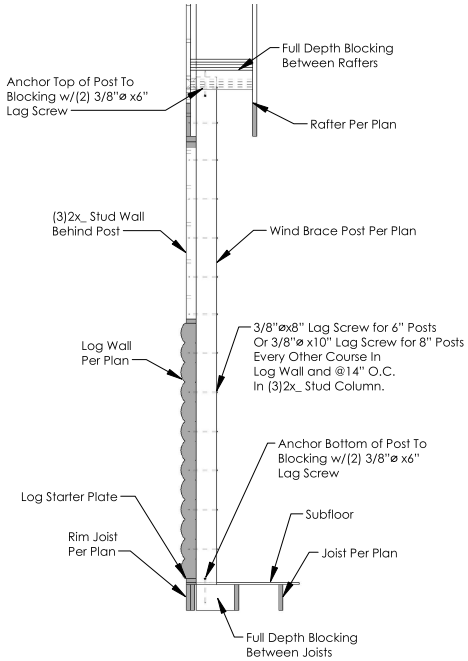
SCALE: 1/2" = 1'-0"



1. Prepare butt cut on log A & D.
2. Prepare pass cut Lon log B & C.
3. Butt log A into log B. Be sure tongue of log B has been. removed to allow log C to pass over lob B.
4. Toenail log A into log B.
5. Lag both logs in place.
6. Drill 1 /18" hole, 9" deep at center of the intersection.
7. Partially fill hole with caulk and drive in 9" dowel flush.
8. Repeat the process on each successive course of log.

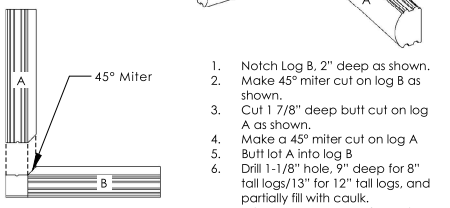
5/9 BUTT & PASS CORNER

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



9/9 WIND BRACE POST DETAIL

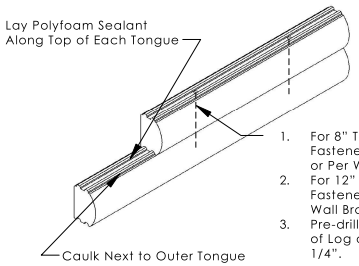
SCALE: 3/8" = 1'-0"



1. Notch Log B, 2" deep as shown.
2. Make 45° miter cut on log B as shown.
3. Cut 1 7/8" deep butt cut on log A as shown.
4. Make a 45° miter cut on log A
5. Butt lot A into log B
6. Drill 1-1/8" hole, 9" deep for 8" tall logs/13" for 12" tall logs, and partially fill with caulk.
7. Drive 9" or 13" dowel flush with top of log.

7/9 MITERED INSIDE LOG CORNER

SCALE: Not to scale



1. For 8" Tall Logs:10"Log Fastener @24" O.C. (max) or Per Wall Bracing Plan
2. For 12" Tall Logs: 14" Log Fastener @24" O.C. or Per Wall Bracing Plan
3. Pre-drill 5/16" Hole in Top of Log and Countersink 1/4".

8/9 TYP. LOG WALL ASSEMBLY

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

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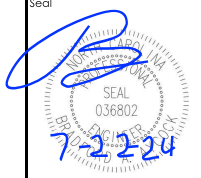

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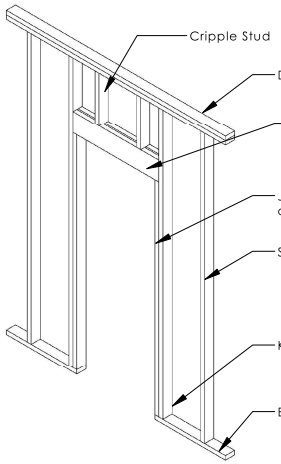
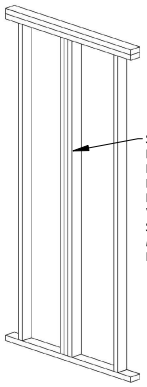
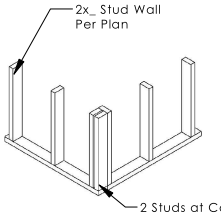


Required King & Jack Studs at End of an Opening				
	24" O.C. Spacing		16" O.C. Spacing	
Opening Width	No. of Jacks	No. of Kings	No. of Jacks	No. of Kings
Up to 3'-6"	1	1	1	1
>3'-6" to 5'-0"	1	2	1	2
>5'-0" to 5'-6"	1	2	2	2
>5'-6" to 8'-0"	1	2	2	2
>8'-0" to 10'-6"	2	2	2	3
>10'-6" to 12'-0"	2	2	3	3
>12'-0" to 13'-0"	2	3	3	3
>13'-0" to 14'-0"	2	3	3	4
>14'-0" to 16'-0"	2	3	3	4
>16'-0" to 18'-0"	3	3	4	4
Notes				
1) Jack and king stud notes on the plan supercede this table if present				

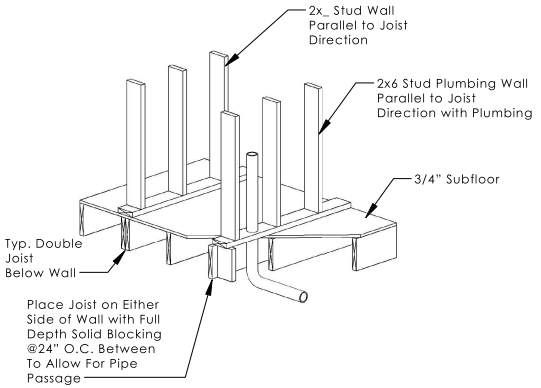
1/10 TYP. FRAMED OPENINGS
SCALE: 1/2" = 1'-0"



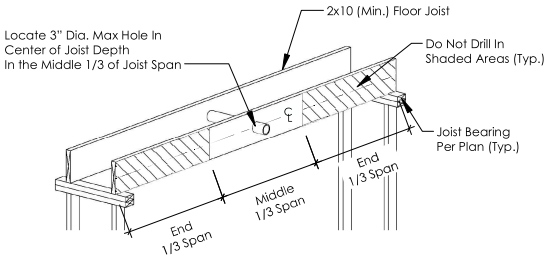
2/10 TYP. STUD COLUMN
SCALE: 1/2" = 1'-0"



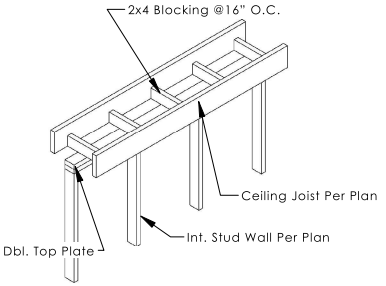
3/10 TYP. INTERIOR WALL CORNER
SCALE: 1/2" = 1'-0"



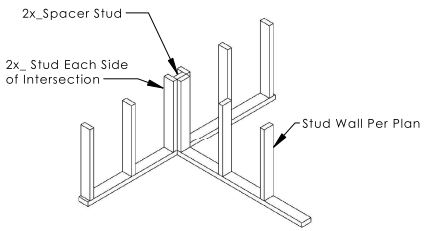
4/10 TYP. DOUBLE JOISTS BELOW 2x6 PLUMBING WALLS
SCALE: 1/2"=1'-0"



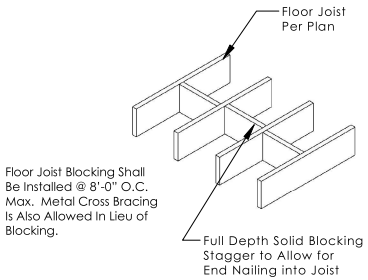
5/10 TYP. FLOOR JOIST ALLOWABLE PENETRATION
SCALE: 1/2" = 1'-0"



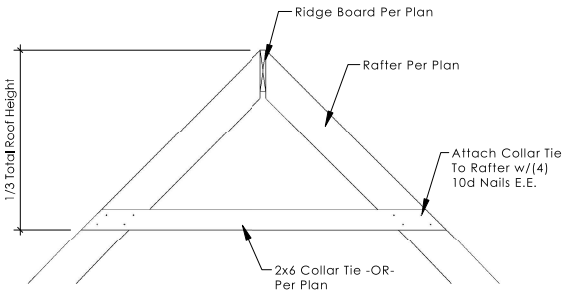
6/10 TYP. CEILING TIE-DOWN
SCALE: 1/2" = 1'-0"



7/10 TYP. INTERIOR WALL "T" INTERSECTION
SCALE: 1/2" = 1'-0"



8/10 TYP. FLOOR JOIST BLOCKING
SCALE: 1/2" = 1'-0"



9/10 TYP. COLLAR TIE DETAIL
SCALE: 1/2" = 1'-0"

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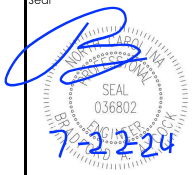

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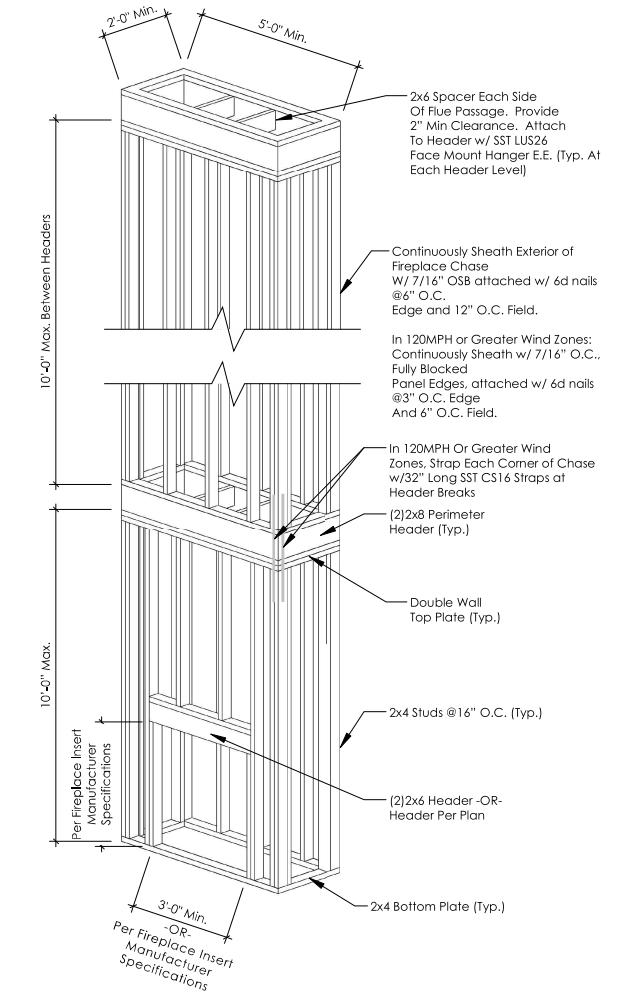
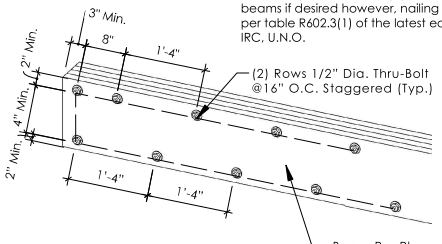


1/11 FIREPLACE INSERT WOOD CHASE DETAIL

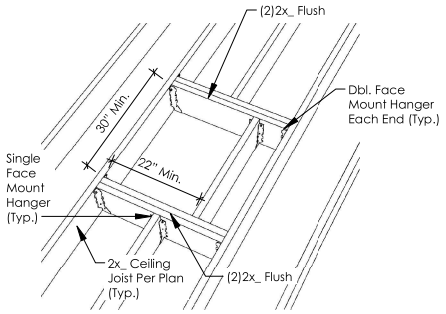
SCALE: nts

Notes:
1. Use for all beams 4-ply and greater, U.N.O.
2. Detail may be used for 2-ply and 3-ply beams if desired however, nailing is sufficient per table R602.3(1) of the latest edition of the IRC, U.N.O.



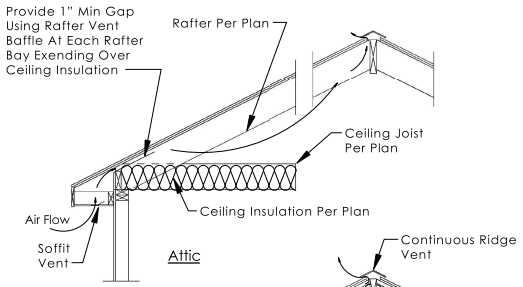
2/11 TYP. MULTI-PLY BEAM BOLTING PATTERN

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



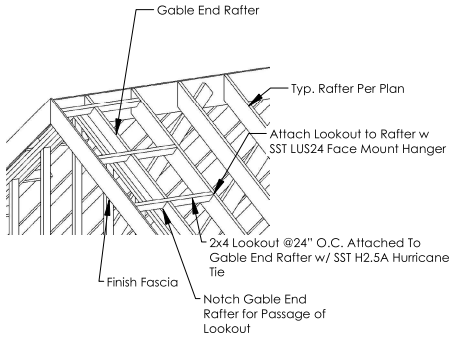
3/11 TYP. ATTIC ACCESS FRAMING

SCALE: Perspective



4/11 ROOF VENTING

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



5/11 TYP. GABLE LOOKOUT FRAMING

SCALE: NTS

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NC Firm License #: P-1562

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Client Name
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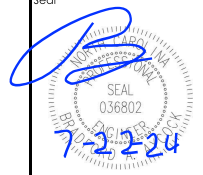

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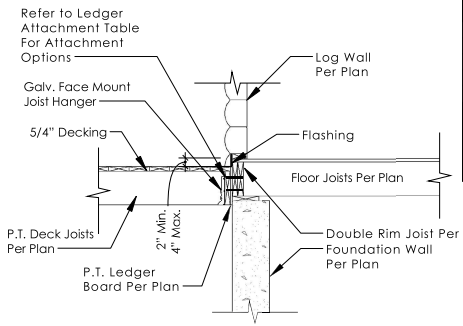
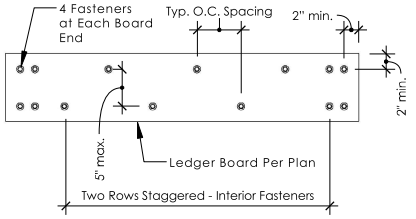
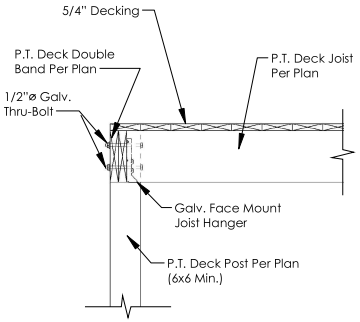


Ledger Attachment Options - Inches on Center							
	Joist Span less than or equal to:						
Fastener Option	6 ft	8 ft	10 ft	12 ft	14 ft	16 ft	18 ft
1/2" Lag Screw	30	23	18	15	13	11	10
1/2" Through Bolt	36	36	34	29	24	21	19
SDS or LedgerLOK Wood Screw	13	10	8	6	5	5	4
SDWS Wood Screw	22	16	13	11	9	8	7
Notes:							
1) Refer to ledger board spacing figure below for placement of fasteners							
2) All spacings based on two staggered rows of connectors							
3) Values are for penetration into double 2x floor joist band ONLY							
4) All fasteners to be hot dipped galvanized							



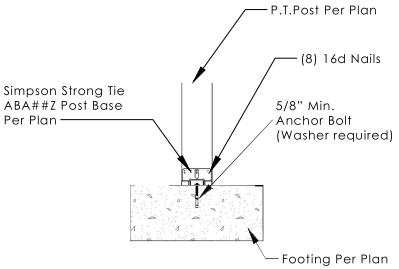
1/12 TYP. DECK ATTACHMENT AT LOG WALL

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



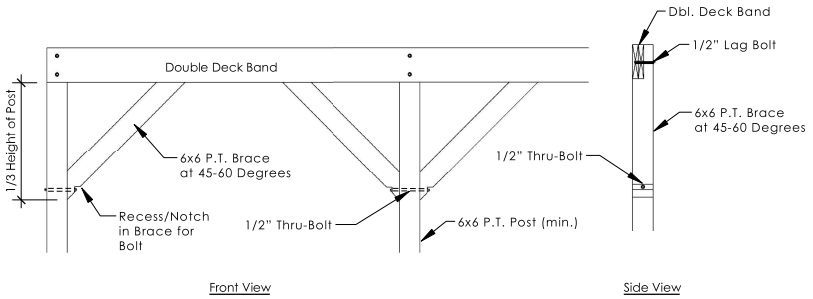
2/12 TYP 2-PLY FLUSH DECK BAND ATTACHMENT

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



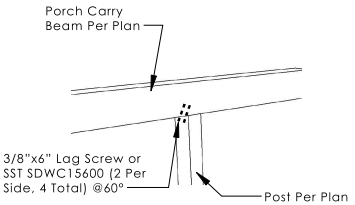
3/12 TYP. DECK POST ANCHORAGE

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



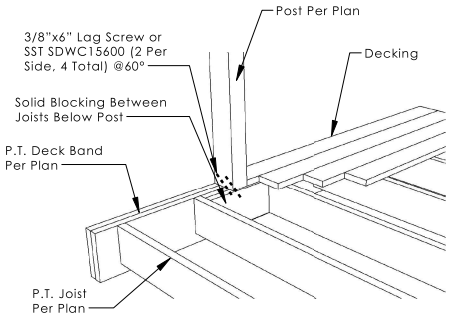
4/12 TYP. DECK POST "Y" BRACING

SCALE: <Scale>



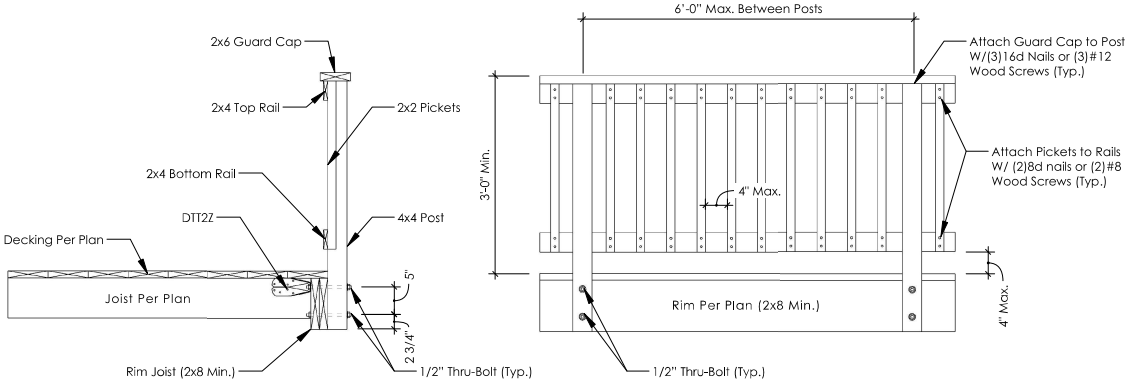
5/12 TYP. PORCH POST TO CARRY BEAM ATTACHMENT

SCALE: Perspective



6/12 TYP. PORCH POST TO DECK ANCHORAGE

SCALE: Perspective



7/12 TYP. WOOD DECK RAILING

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

ARROWdesign pllc
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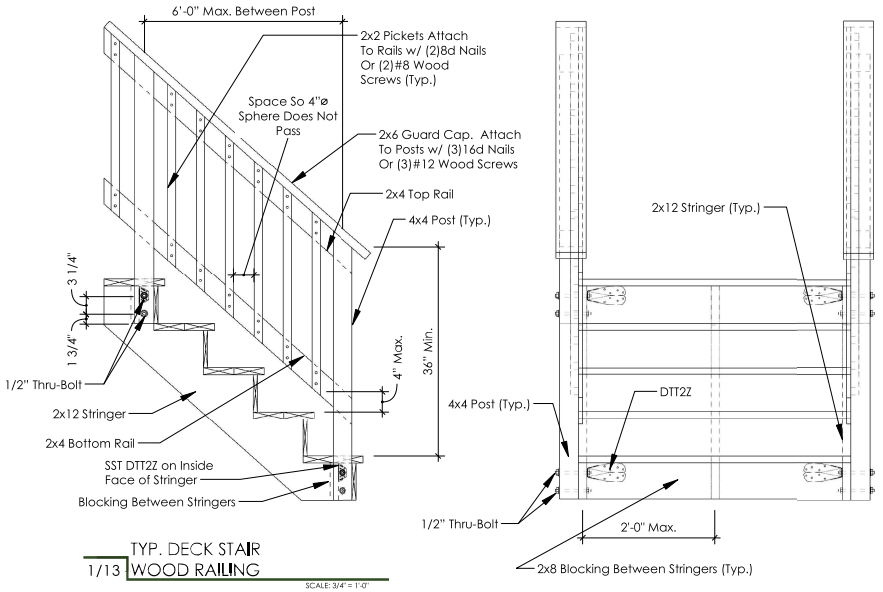
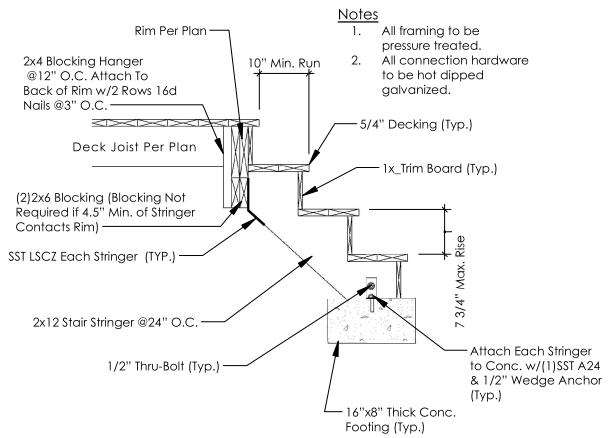


1/13 TYP. DECK STAIR WOOD RAILING

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



2/13 TYP. DECK STAIRS

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

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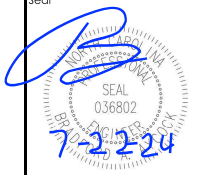

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